EV-A300EC/UB
RMT-409

SONY

SERVICE MANUAL

AEP Model
(EV-A300EC)
UK Model
(EV-A300UB)
January, 1986

SUPPLEMENT-1

Subject: Australian Model

- The Australian model EV-A300AS has been designed based on the EV-A300EC AEP model.
  The main difference between the two models is the tuner block.
  This Supplement-1 includes the main differences between the two models, including block diagram, schematic, mounting diagram and parts list.
  Refer to the Service Manual for EV-A300EC/UB for other information.

Subject: Video Block Circuit

- The video block circuit has been changed and the SK-9 boaed has been added partway through production.
  This Supplement-1 includes the schematics, mounting diagram and parts list for the changed video block.
  The video block included for the Australian model is for all sets.
- File this Supplement-1 with the Service Manual.

MICROFILM

Consumer
VIDEO

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1. GENERAL

Supplement to the EV-A300EC/UB
Operating Instructions on Service manual.

The EV-A300AS is almost the same as the EV-A300EC/UB. The differences relate mainly to the difference in TV broadcasting system.

TV channel coverage of the EV-A300AS
VHF: Australian channels 0 through 5 (Band indicator VL) and 5a through 11 (VH)
UHF: Australian channels 28 through 34 and 39 through 63 (U)

The recorder operations are the same as those of the EV-A300EC/UB, except for the following pages of the Operating Instructions on Service manual.

SPECIFICATIONS of the EV-A300AS

Only the following items should be changed.

Video signal	CCIR standards, PAL color	
Channel coverage	VHF	Channels 0–5 and 5a–11
	UHF	Channels 28–34 and 39–63
RF output signal	VHF channel 0 or 1 selectable, 75 ohms, unbalanced	
Power requirements	240 V ac, 50 Hz	

Accessories supplied
Video cassette tape (1)
75-ohm coaxial cable for TV connection (1)
Connecting cable VMC-2104MS (1)
Remote Commander RMT-409 with two IEC designation R6 batteries (1)
Screwdriver (1)

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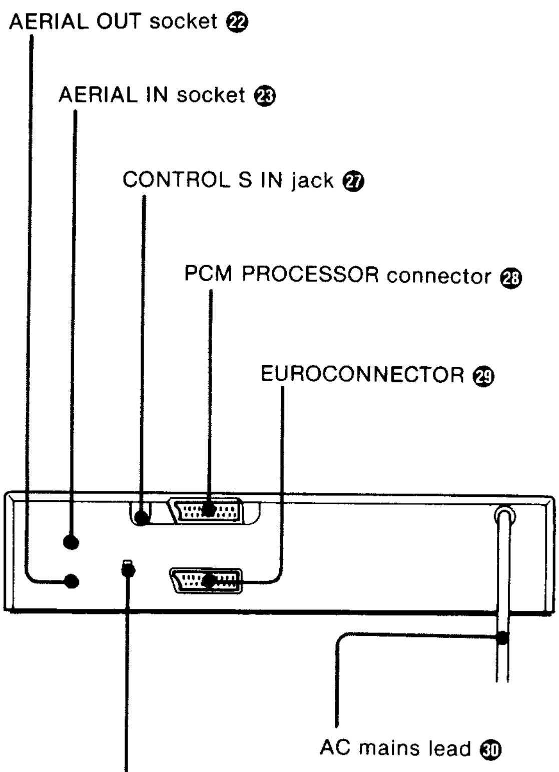
Rear of the EV-A300AS



RF unit selector
Select the output channel at the AERIAL OUT socket. Set the selector to VHF 0 CH or 1 CH, whichever is not active in your area.

Notes
- The functions of parts other than the RF unit selector are the same as those of the EV-A300EC/UB. Refer to page 7 of the Operating Instructions on Service manual for parts with the same number circled.
- For the optional PCM stereo processor to be connected to the PCM PROCESSOR connector, please consult your Sony dealer.

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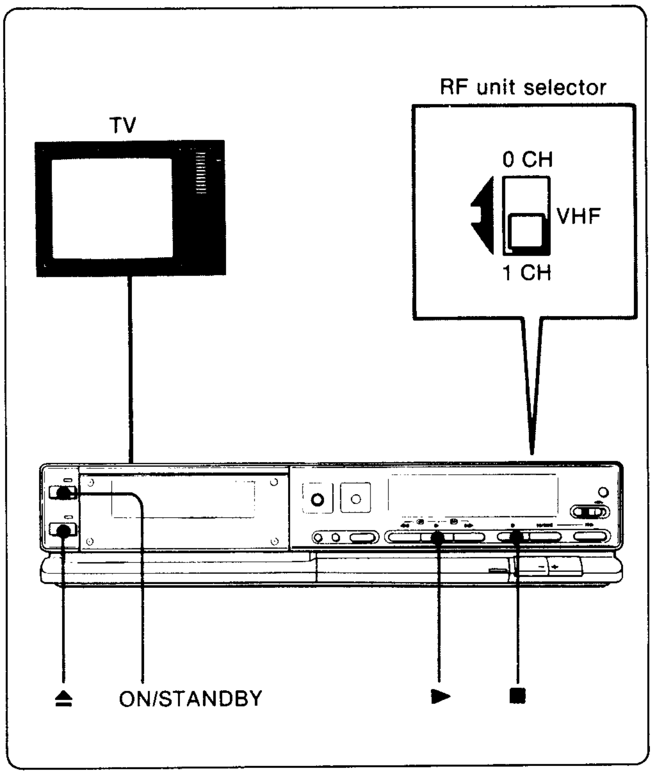
ADJUSTING THE TV

When your TV is connected to the recorder AERIAL OUT socket, adjust the TV to receive the signal from the recorder as follows. Ignore the entire description on page 9 of the Operating Instructions on Service manual.

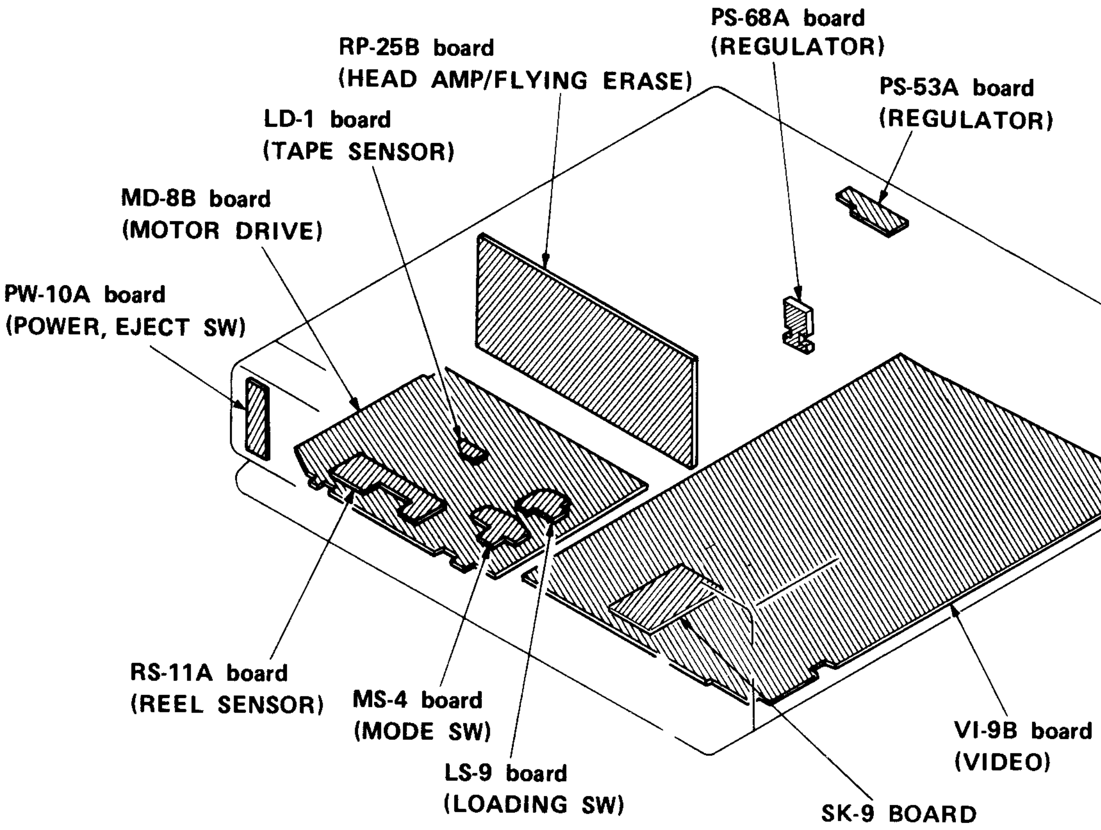


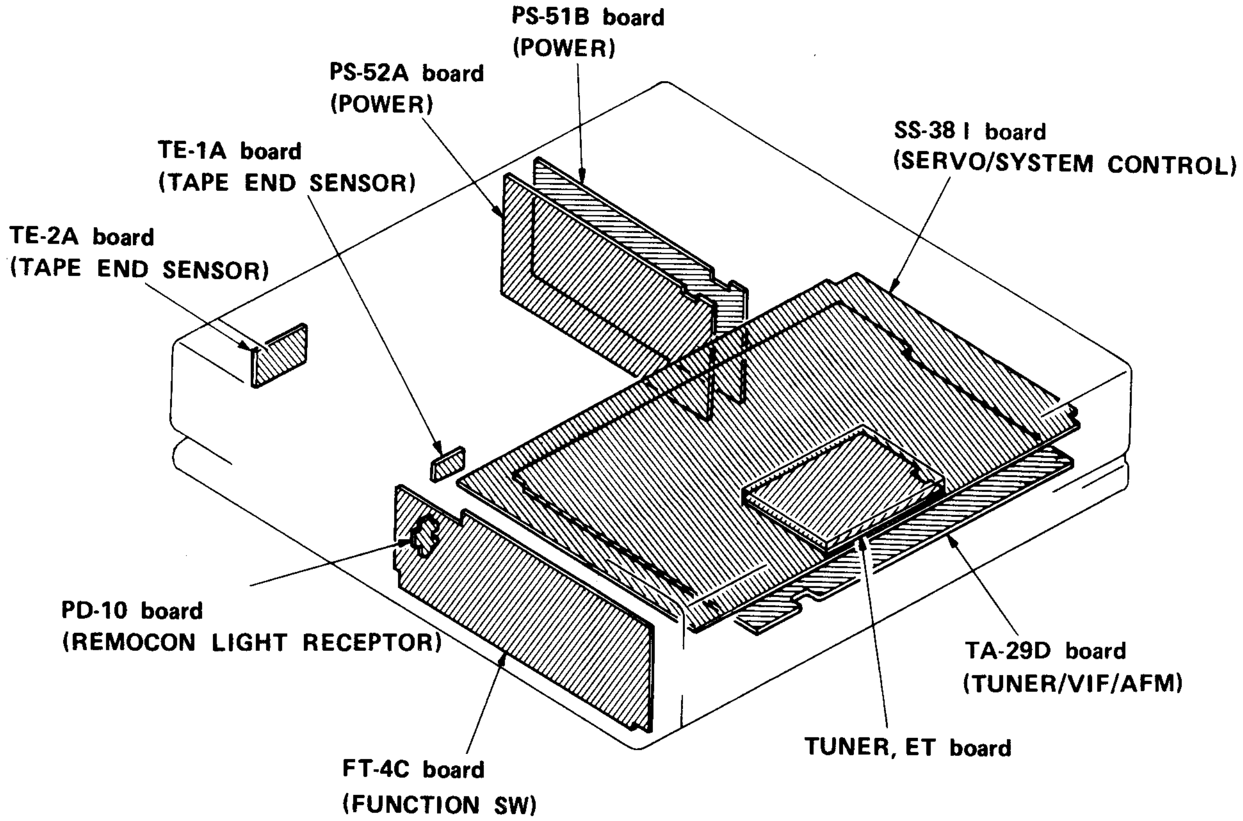
1. Set the RF unit selector located at the rear of the recorder to VHF 0 or 1 CH, whichever channel is not active in your area.
2. Press the ON/STANDBY switch.
3. Press the ≜ button and insert a recorded video cassette with the side from which the tape is visible up and in the direction of the arrow on the cassette.
4. Press the ▶ button.
5. Turn on the TV.
6. Set the TV to either VHF channel 0 or 1 to agree with the setting of the RF unit selector. The tape programme will be displayed on the TV screen. If the display is not clear, fine-tune the channel on the TV.

After adjustment, check that the display on the screen changes when you stop the tape by pressing the ■ button on the recorder. If the display does not change, repeat the preceding steps. (To eject the cassette, press the ≜ button.)

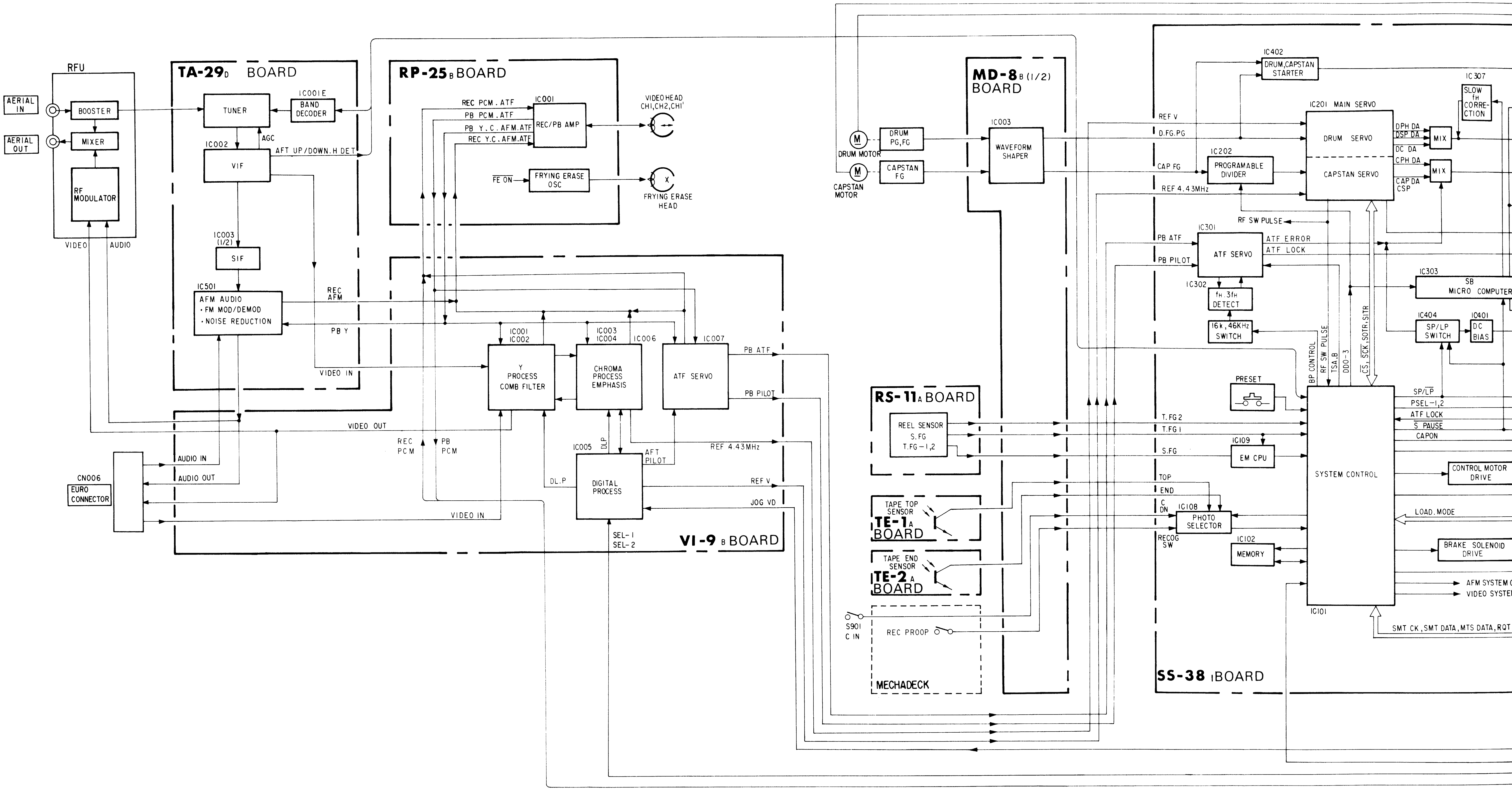
3. DIAGRAMS

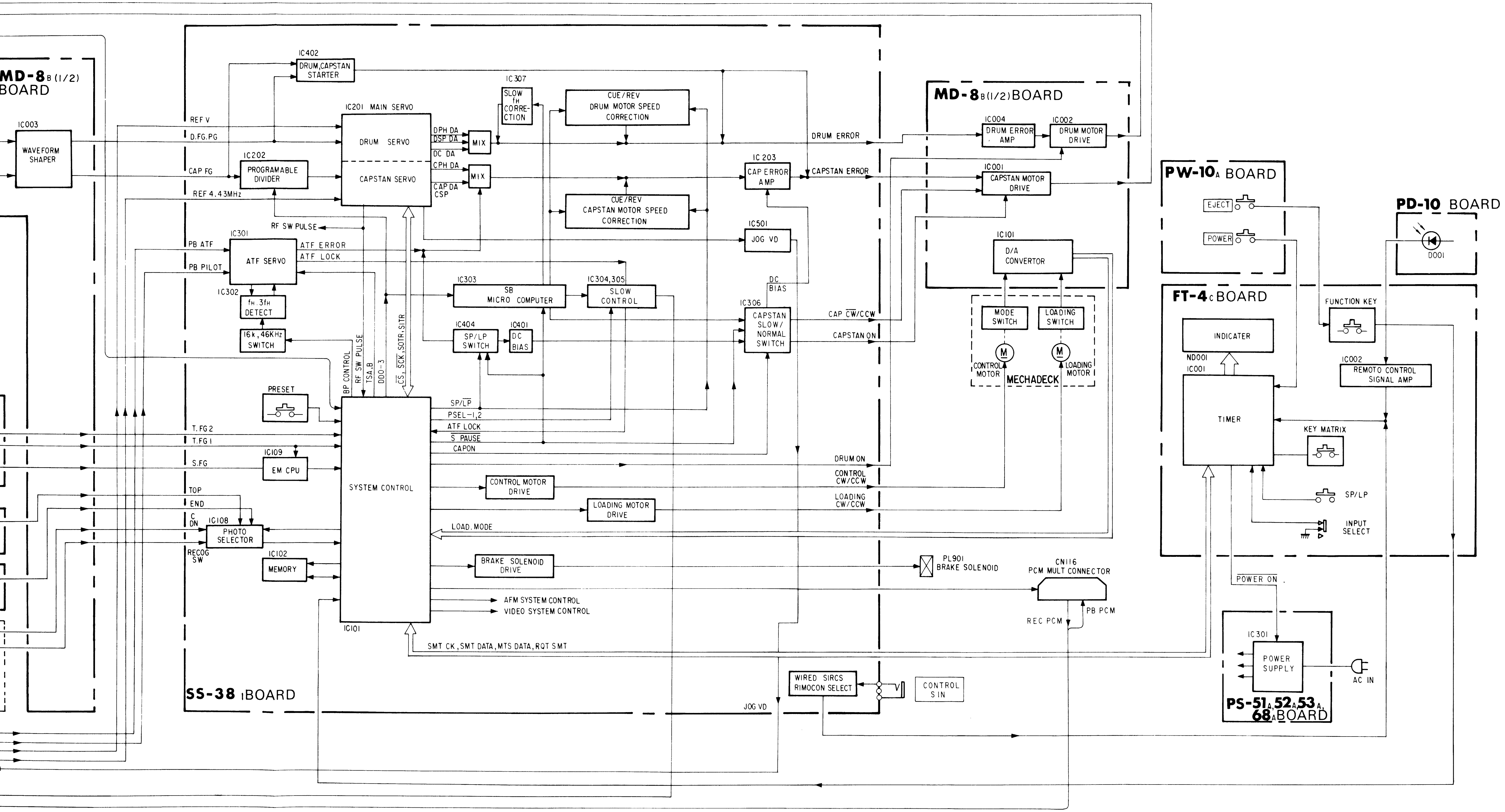
3-1. CIRCUIT BOARDS LOCATION [Australian Model]


RP-25B board
(HEAD AMP/FLYING ERASE)
PS-68A board
(REGULATOR)
PS-53A board
(REGULATOR)
LD-1 board
(TAPE SENSOR)
MD-8B board
(MOTOR DRIVE)
PW-10A board
(POWER, EJECT SW)
RS-11A board
(REEL SENSOR)
MS-4 board
(MODE SW)
LS-9 board
(LOADING SW)
VI-9B board
(VIDEO)
SK-9 BOARD

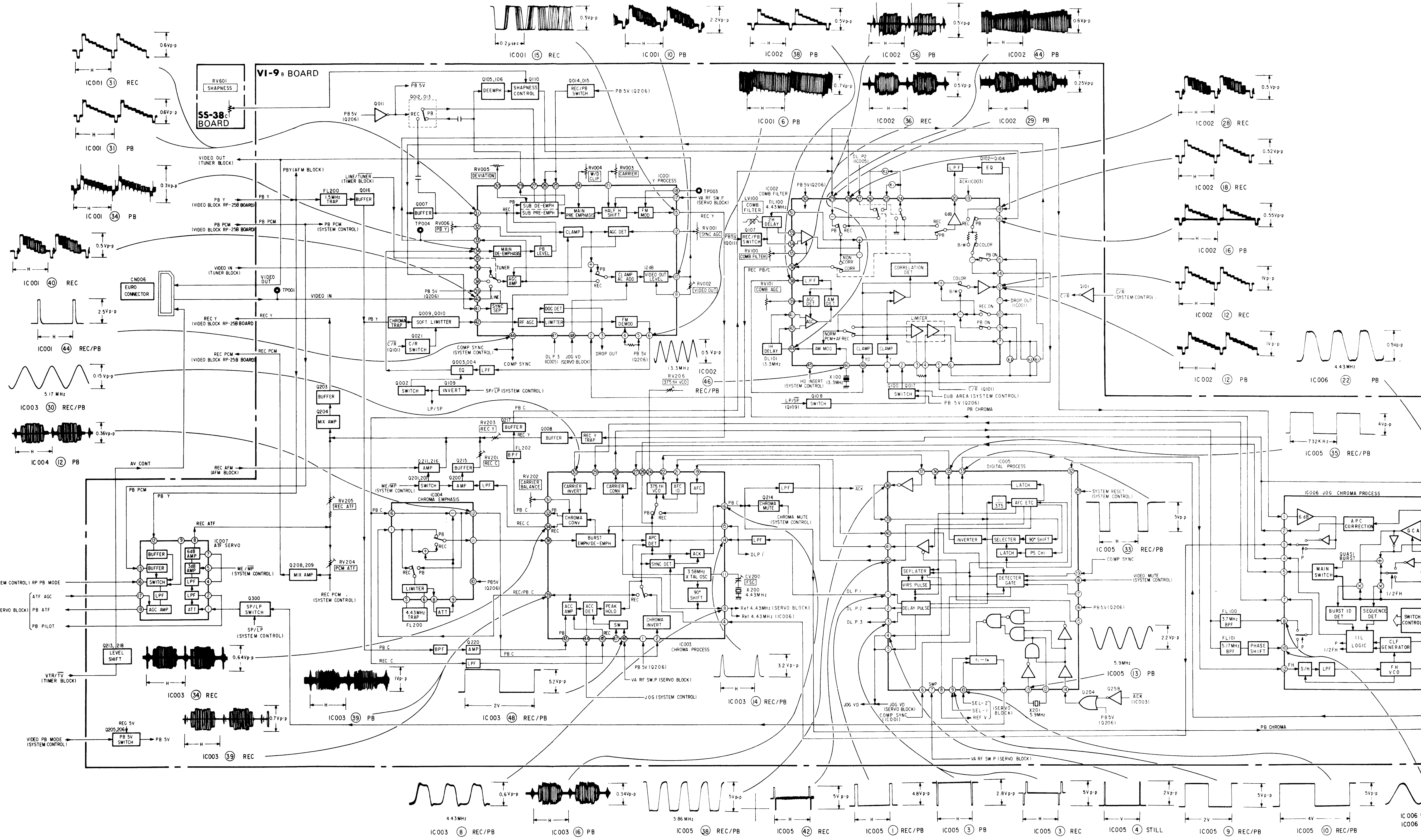

PS-51B board
(POWER)
PS-52A board
(POWER)
TE-1A board
(TAPE END SENSOR)
TE-2A board
(TAPE END SENSOR)
SS-38 I board
(SERVO/SYSTEM CONTROL)
PD-10 board
(REMOCON LIGHT RECEPTOR)
FT-4C board
(FUNCTION SW)
TUNER, ET board
TA-29D board
(TUNER/VIF/AFM)

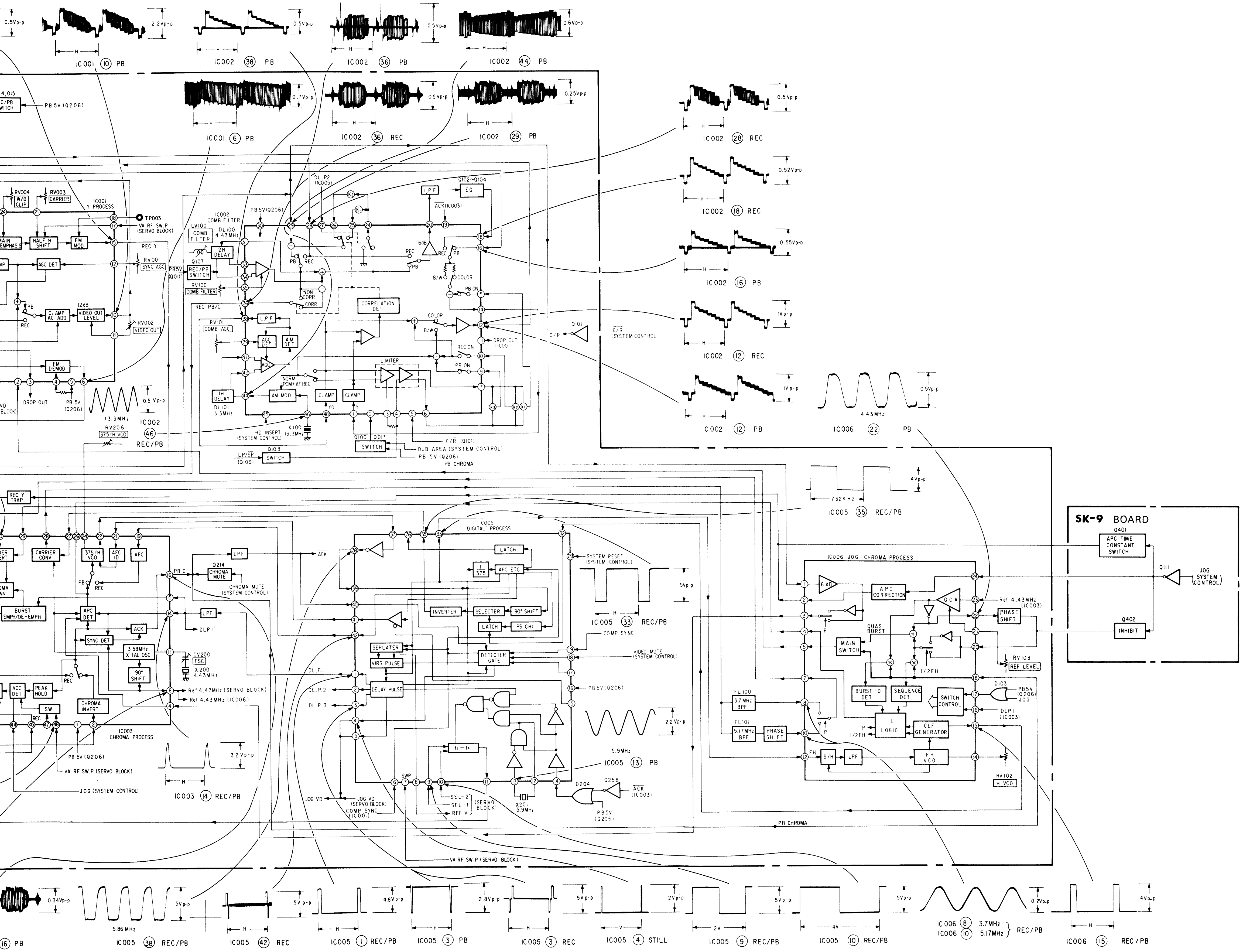
3-2. OVERALL BLOCK DIAGRAM


RFU
AERIAL IN
AERIAL OUT
BOOSTER
MIXER
RF MODULATOR
VIDEO
AUDIO
TA-29D BOARD
TUNER
IC001E
BAND DECODER
IC002
AGC
VIF
AFT UP/DOWN.H DET
IC003 (1/2)
SIF
IC501
AFM AUDIO
• FM MOD/DEMOD
• NOISE REDUCTION
REC AFM
PB Y
VIDEO IN
VIDEO OUT
AUDIO IN
AUDIO OUT
CN006
EURO CONNECTOR
RP-25B BOARD
REC PCM . ATF
PB PCM . ATF
PB Y . C . AFM.ATF
REC Y . C . AFM.ATF
IC001
REC/PB AMP
VIDEO HEAD CH1,CH2,CH1'
FE ON
FRYING ERASE OSC
FRYING ERASE HEAD
IC001 IC002
Y PROCESS COMB FILTER
IC003 IC004
IC006
CHROMA PROCESS EMPHASIS
IC007
ATF SERVO
PB ATF
PB PILOT
REC PCM
PB PCM
DLP
AFT PILOT
REF 4.43MHz
IC005
DL.P
DIGITAL PROCESS
REF V
JOG VD
SEL-1
SEL-2
VI-9B BOARD
MD-8B (1/2) BOARD
DRUM MOTOR
CAPSTAN MOTOR
DRUM PG,FG
CAPSTAN FG
IC003
WAVEFORM SHAPER
RS-11A BOARD
REEL SENSOR
S.FG
T.FG-1,2
TAPE TOP SENSOR
TE-1A BOARD
TAPE END SENSOR
TE-2A BOARD
S901
C IN
REC PROOF
MECHADECK
IC402
DRUM,CAPSTAN STARTER
IC307
SLOW fH CORRECTION
IC201 MAIN SERVO
REF V
D.FG.PG
CAP FG
REF 4.43MHz
IC202
PROGRAMABLE DIVIDER
DRUM SERVO
CAPSTAN SERVO
DPH DA
DSP DA
DC DA
CPH DA
CAP DA
CSP
MIX
RF SW PULSE
IC301
PB ATF
PB PILOT
ATF SERVO
ATF ERROR
ATF LOCK
IC302
fH.3fH DETECT
16k,46kHz SWITCH
IC303
SB MICRO COMPUTER
IC404
SP/LP SWITCH
IC401
DC BIAS
BP CONTROL
RF SW PULSE
TSA.B
DDO-3
CS, SCK, SOTR, SITR
PRESET
SP/LP
PSEL-1,2
ATF LOCK
S PAUSE
CAPON
T.FG 2
T.FG 1
S.FG
IC109
EM CPU
SYSTEM CONTROL
CONTROL MOTOR DRIVE
TOP
END
C ON
IC108
PHOTO SELECTOR
RECOG SW
LOAD.MODE
IC102
MEMORY
BRAKE SOLENOID DRIVE
AFM SYSTEM C
VIDEO SYSTEI
IC101
SMT CK,SMT DATA,MTS DATA,RQT
SS-38 I BOARD


MD-8B (1/2) BOARD
IC003
WAVEFORM SHAPER
REF V
D.FG.PG
CAP FG
REF 4.43MHz
IC402
DRUM,CAPSTAN STARTER
IC202
PROGRAMABLE DIVIDER
IC201 MAIN SERVO
DRUM SERVO
CAPSTAN SERVO
DPH DA
DSP DA
DC DA
CPH DA
CAP DA
CSP
MIX
MIX
IC307
SLOW fH CORRE-CTION
CUE/REV DRUM MOTOR SPEED CORRECTION
CUE/REV CAPSTAN MOTOR SPEED CORRECTION
IC203
CAP ERROR AMP
DRUM ERROR
CAPSTAN ERROR
IC501
JOG VD
RF SW PULSE
IC301
PB ATF
PB PILOT
ATF SERVO
ATF ERROR
ATF LOCK
IC302
fH.3fH DETECT
16k,46KHz SWITCH
IC303
SB MICRO COMPUTER
IC304,305
SLOW CONTROL
DC BIAS
IC306
CAPSTAN SLOW/ NORMAL SWITCH
IC404
SP/LP SWITCH
IC401
DC BIAS
CAP CW/CCW
CAPSTAN ON
BP CONTROL
RF SW PULSE
TSA.B
DDO-3
CS,SCK,SOTR,SITR
PRESET
SP/LP
PSEL-1,2
ATF LOCK
S PAUSE
CAPON
T.FG2
T.FG1
S.FG
IC109
EM CPU
SYSTEM CONTROL
TOP
END
C DN
IC108
PHOTO SELECTOR
RECOG SW
IC102
MEMORY
IC101
DRUM ON
CONTROL MOTOR DRIVE
CONTROL CW/CCW
LOADING MOTOR DRIVE
LOADING CW/CCW
LOAD. MODE
BRAKE SOLENOID DRIVE
PL901
BRAKE SOLENOID
AFM SYSTEM CONTROL
VIDEO SYSTEM CONTROL
SMT CK,SMT DATA,MTS DATA,RQT SMT
SS-38 1BOARD
WIRED SIRCS RIMOCON SELECT
CONTROL S IN
JOG VD
CN116
PCM MULT CONNECTOR
REC PCM
PB PCM
MD-8B(1/2)BOARD
IC004
DRUM ERROR AMP
IC002
DRUM MOTOR DRIVE
IC001
CAPSTAN MOTOR DRIVE
IC101
D/A CONVERTOR
MODE SWITCH
LOADING SWITCH
M
M
CONTROL MOTOR
LOADING MOTOR
MECHADECK
PW-10A BOARD
EJECT
POWER
PD-10 BOARD
D001
FT-4C BOARD
FUNCTION KEY
INDICATER
ND001
IC001
TIMER
IC002
REMOTO CONTROL SIGNAL AMP
KEY MATRIX
SP/LP
INPUT SELECT
POWER ON
IC301
POWER SUPPLY
AC IN
PS-51A,52A,53A, 68ABOARD

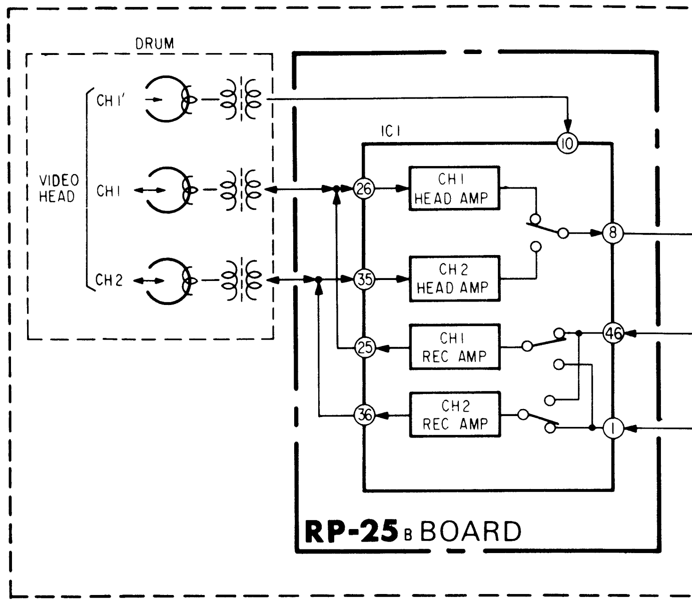
3-3. VIDEO BLOCK DIAGRAM (1) [AEP/UK/Australian Model]


VI-9B BOARD
SS-38C BOARD
RV601 SHARPNESS
IC001 (31) REC
IC001 (31) PB
IC001 (34) PB
IC001 (40) REC
IC001 (44) REC/PB
IC003 (30) REC/PB
IC004 (12) PB
IC001 (15) REC
IC001 (10) PB
IC002 (38) PB
IC002 (36) PB
IC002 (44) PB
IC001 (6) PB
IC002 (36) REC
IC002 (29) PB
IC002 (28) REC
IC002 (18) REC
IC002 (16) PB
IC002 (12) REC
IC002 (12) PB
IC006 (22) PB
IC005 (35) REC/PB
IC005 (33) REC/PB
IC005 (13) PB
IC002 (46) REC/PB
IC003 (34) REC
IC003 (39) PB
IC003 (39) REC
IC003 (48) REC/PB
IC003 (14) REC/PB
IC003 (8) REC/PB
IC003 (16) PB
IC005 (38) REC/PB
IC005 (42) REC
IC005 (1) REC/PB
IC005 (3) PB
IC005 (3) REC
IC005 (4) STILL
IC005 (9) REC/PB
IC005 (10) REC/PB
IC001 Y PROCESS
IC002 COMB FILTER
IC003 CHROMA PROCESS
IC004 CHROMA EMPHASIS
IC005 DIGITAL PROCESS
IC006 JOG CHROMA PROCESS
IC007 ATF SERVO
CN006 EURO CONNECTOR
DEEMPH
SHAPNESS CONTROL
REC/PB SWITCH
MAIN DE-EMPHASIS
SUB DE-EMPH
SUB PRE-EMPH
MAIN PRE EMPHASIS
HALF H SHIFT
FM MOD
CLAMP
AGC DET
AGC AMP
SYNC SEP
CLAMP AC ADD
VIDEO OUT LEVEL
DOC DET
RF AGC
LIMITER
FM DEMOD
SOFT LIMITTER
CHROMA TRAP
C/R SWITCH
EQ
LPF
BUFFER
MIX AMP
SWITCH
INVERT
COMB FILTER
2H DELAY
1H DELAY
AM MOD
CORRELATION DET
CARRIER INVERT
CARRIER CONV
CHROMA CONV
BURST EMPH/DE-EMPH
375fH VCO
AFC ID
AFC
APC DET
SYNC DET
ACK
3.58MHz X'TAL OSC
90° SHIFT
ACC AMP
ACC DET
PEAK HOLD
SW
CHROMA INVERT
CHROMA MUTE
4.43MHz TRAP
ATT
AGC AMP
SP/LP SWITCH
LEVEL SHIFT
PB 5V SWITCH
LATCH
AFC ETC
INVERTER
SELECTER
90° SHIFT
PS CHI
DETECTER GATE
SEPLATER
VIRS PULSE
DELAY PULSE
APC CORRECTION
MAIN SWITCH
QUASI BURST
BURST ID DET
SEQUENCE DET
I/L LOGIC
CLF GENERATOR
FH VCO
PHASE SHIFT
3.7MHz BPF
5.17MHz BPF
S/H
VIDEO OUT (TUNER BLOCK)
VIDEO IN (TUNER BLOCK)
PB Y (VIDEO BLOCK RP-25B BOARD)
PB PCM (VIDEO BLOCK RP-25B BOARD)
REC Y (VIDEO BLOCK RP-25B BOARD)
REC PCM (VIDEO BLOCK RP-25B BOARD)
REC AFM (AFM BLOCK)
AV CONT
(SYSTEM CONTROL) RP PB MODE
ATF AGC
PB ATF
PB PILOT
(SERVO BLOCK)
VTR/TV (TIMER BLOCK)
VIDEO PB MODE (SYSTEM CONTROL)
PB CHROMA
VA RF SW P (SERVO BLOCK)
JOG (SYSTEM CONTROL)
Ref 4.43MHz (SERVO BLOCK)
Ref 4.43MHz (IC006)
SYSTEM RESET (SYSTEM CONTROL)
VIDEO MUTE (SYSTEM CONTROL)
DUB AREA (SYSTEM CONTROL)
C/R (SYSTEM CONTROL)



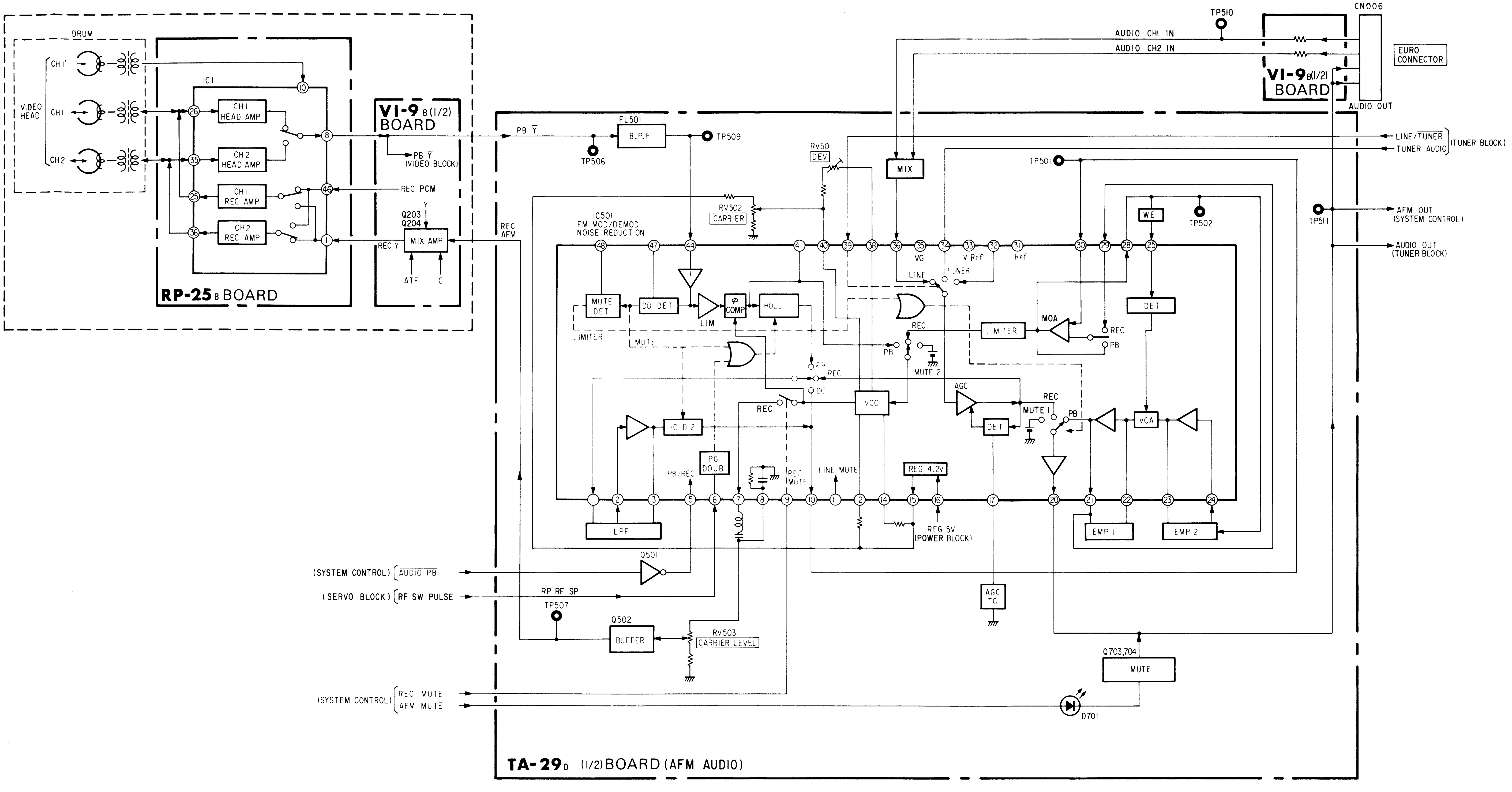
IC001 ⑩ PB
2.2Vp-p
IC002 ㊳ PB
0.5Vp-p
IC002 ㊱ PB
IC002 ㊹ PB
0.6Vp-p
IC001 ⑥ PB
0.7Vp-p
IC002 ㊱ REC
IC002 ㉙ PB
0.25Vp-p
IC002 ㉘ REC
IC002 ⑱ REC
0.52Vp-p
IC002 ⑯ PB
0.55Vp-p
IC002 ⑫ REC
1Vp-p
IC002 ⑫ PB
IC006 ㉒ PB
4.43MHz
PB 5V (Q206)
RV004 W/D CLIP
RV003 CARRIER
IC001 Y PROCESS
TP003
VA RF SW.P (SERVO BLOCK)
MAIN EMPHASIS
HALF H SHIFT
FM MOD
REC Y
AGC DET
RV001 SYNC AGC
CLAMP AC ADD
12dB
VIDEO OUT LEVEL
RV002 VIDEO OUT
FM DEMOD
DROP OUT
PB 5V (Q206)
13.3MHz
RV206 375fH VCO
IC002 ㊻ REC/PB
IC002 COMB FILTER
LV100 COMB FILTER
DL100 4.43MHz
2H DELAY
Q107 REC/PB SWITCH
RV100 COMB FILTER
REC PB/C
RV101 COMB AGC
LPF
AGC DET
AM DET
1H DELAY
DL101 13.3MHz
AM MOD
CLAMP
HD INSERT (SYSTEM CONTROL)
X100 13.3MHz
LP/SP (Q109)
Q108 SWITCH
DL P2 (IC005)
Q102~Q104
EQ
ACK (IC003)
6dB
B/W
COLOR
PB ON
NON CORR
CORR
CORRELATION DET
REC ON
LIMITER
DROP OUT (IC001)
Q101
C/R
C/R (SYSTEM CONTROL)
Q100 Q101 SWITCH
C/R (Q101)
DUB AREA (SYSTEM CONTROL)
PB 5V (Q206)
PB CHROMA
4Vp-p
732KHz
IC005 ㉟ REC/PB
REC Y TRAP
CARRIER CONV
375 fH VCO
AFC ID
AFC
PB C
Q214 CHROMA MUTE
CHROMA MUTE (SYSTEM CONTROL)
ACK
BURST EMPH/DE-EMPH
APC DET
SYNC DET
3.58MHz X'TAL OSC
90° SHIFT
CV200 FSC
X200 4.43MHz
DLP I
Ref 4.43MHz (SERVO BLOCK)
Ref 4.43MHz (IC006)
ACC DET
PEAK HOLD
SW
CHROMA INVERT
IC003 CHROMA PROCESS
PB 5V (Q206)
VA RF SW.P (SERVO BLOCK)
JOG (SYSTEM CONTROL)
3.2Vp-p
IC003 ⑭ REC/PB
IC005 DIGITAL PROCESS
LATCH
1/375
AFC ETC
INVERTER
SELECTER
90° SHIFT
LATCH
PS CHI
SEPLATER
VIRS PULSE
DETECTER GATE
DELAY PULSE
SYSTEM RESET (SYSTEM CONTROL)
5Vp-p
IC005 ㉝ REC/PB
COMP SYNC
VIDEO MUTE (SYSTEM CONTROL)
PB5V (Q206)
DL.P.1
DL.P.2
DL.P.3
f1 - f4
2.2Vp-p
5.9MHz
IC005 ⑬ PB
SWP
JOG VD
JOG VD (SERVO BLOCK)
COMP SYNC (IC001)
SEL-2
SEL-1
REF V
(SERVO BLOCK)
X201 5.9MHz
D204
Q258
ACK (IC003)
PB5V (Q206)
PB CHROMA
VA RF SW.P (SERVO BLOCK)
IC006 JOG CHROMA PROCESS
6dB
APC CORRECTION
GCA
Ref 4.43MHz (IC003)
PHASE SHIFT
QUASI BURST
MAIN SWITCH
RV103 REF LEVEL
1/2FH
BURST ID DET
SEQUENCE DET
SWITCH CONTROL
D103
PB5V (Q206)
JOG
DLP I (IC003)
FL100 3.7MHz BPF
FL101 5.17MHz BPF
PHASE SHIFT
IIL LOGIC
CLF GENERATOR
S/H
LPF
FH VCO
RV102 H VCO
SK-9 BOARD
Q401 APC TIME CONSTANT SWITCH
Q111
JOG (SYSTEM CONTROL)
Q402 INHIBIT
0.34Vp-p
5.86MHz
IC005 ㊳ REC/PB
5Vp-p
IC005 ㊷ REC
4.8Vp-p
IC005 ① REC/PB
2.8Vp-p
IC005 ③ PB
IC005 ③ REC
2Vp-p
IC005 ④ STILL
2V
IC005 ⑨ REC/PB
4V
IC005 ⑩ REC/PB
0.2Vp-p
IC006 ⑧ 3.7MHz
IC006 ⑩ 5.17MHz
REC/PB
IC006 ⑮ REC/PB
⑯ PB

3-4. TUNER/AUDIO BLOCK DIAGRAM (1) [Australian Mo



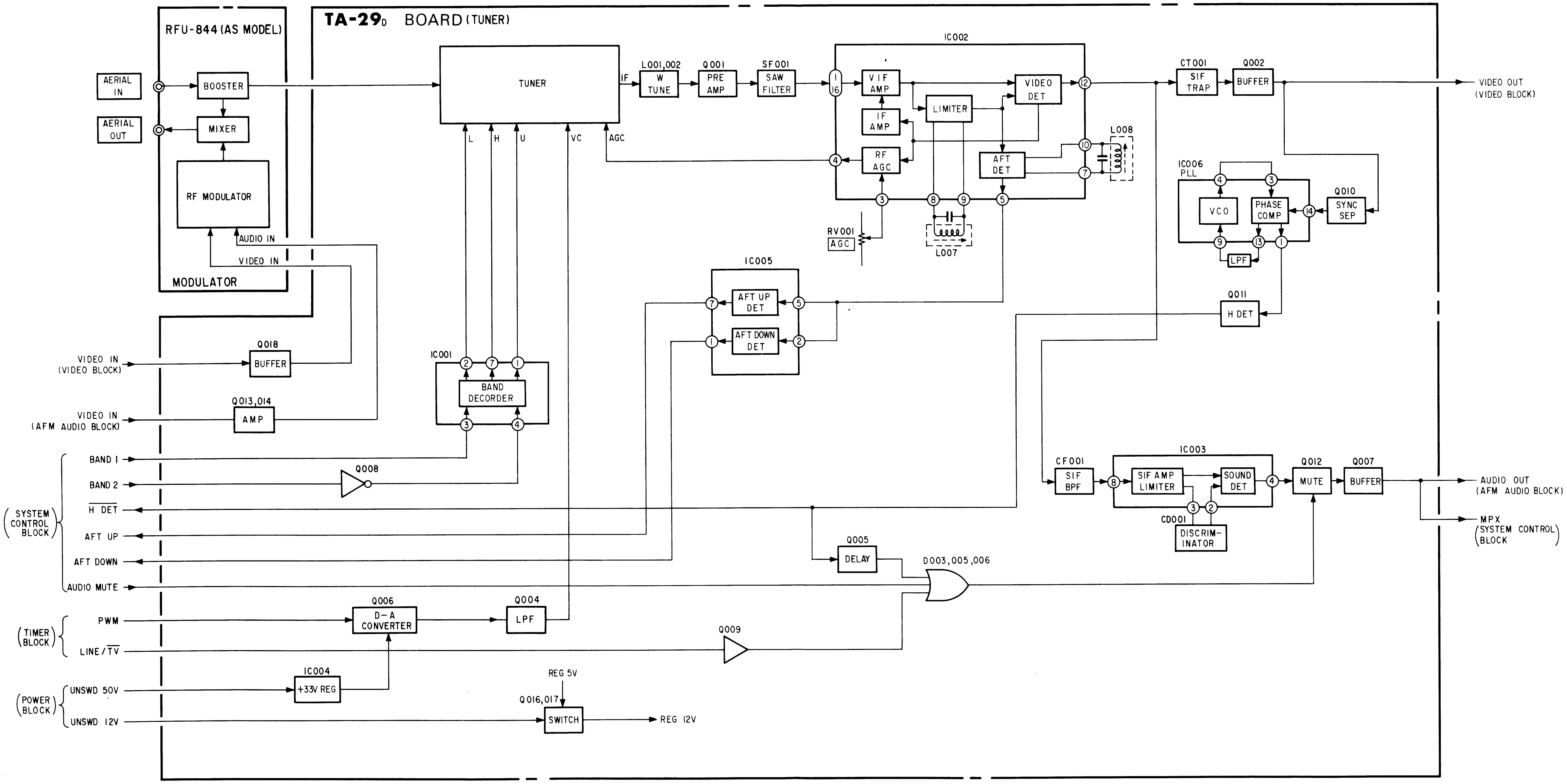
DRUM
VIDEO HEAD
CH1'
CH1
CH2
IC1
CH1 HEAD AMP
CH2 HEAD AMP
CH1 REC AMP
CH2 REC AMP
RP-25B BOARD
(SYSTEM CON
(SERVO BL
(SYSTEM CON

3-4. TUNER/AUDIO BLOCK DIAGRAM (1) [Australian Model]

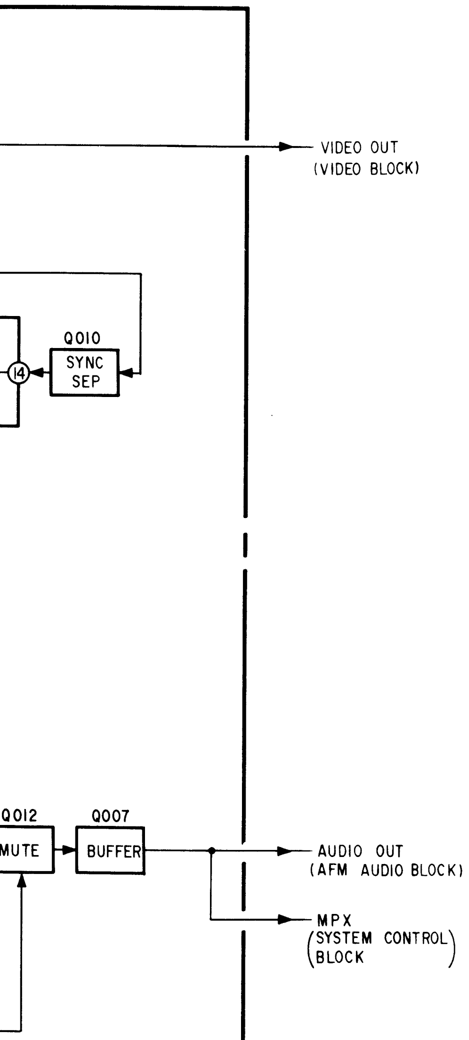


DRUM
VIDEO HEAD
CH1'
CH1
CH2
IC1
CH1 HEAD AMP
CH2 HEAD AMP
CH1 REC AMP
CH2 REC AMP
RP-25B BOARD
VI-9B(1/2) BOARD
PB Y (VIDEO BLOCK)
REC PCM
Q203
Q204
Y
MIX AMP
REC Y
ATF
C
REC AFM
PB Y
FL501
B.P.F
TP509
TP506
IC501
FM MOD/DEMOD
NOISE REDUCTION
RV502
CARRIER
RV501
DEV
MIX
TP501
WE
TP502
TP510
AUDIO CH1 IN
AUDIO CH2 IN
CN006
EURO CONNECTOR
VI-9B(1/2) BOARD
AUDIO OUT
LINE/TUNER
TUNER AUDIO
(TUNER BLOCK)
TP511
AFM OUT (SYSTEM CONTROL)
AUDIO OUT (TUNER BLOCK)
VG
V Ref
Ref
LINE
TUNER
MUTE DET
DO DET
LIM
φ COMP
HOLD
LIMITER
MUTE
REC
PB
MUTE 2
LIMITER
MOA
REC
PB
DET
AGC
VCO
REC
MUTE 1
PB
DET
VCA
HOLD 2
PG DOUB
PB/REC
REC MUTE
LINE MUTE
REG 4.2V
REG 5V (POWER BLOCK)
LPF
EMP 1
EMP 2
AGC TC
Q501
(SYSTEM CONTROL) AUDIO PB
(SERVO BLOCK) RF SW PULSE
RP RF SP
TP507
Q502
BUFFER
RV503
CARRIER LEVEL
Q703,704
MUTE
(SYSTEM CONTROL) REC MUTE
AFM MUTE
D701
TA-29D (1/2) BOARD (AFM AUDIO)

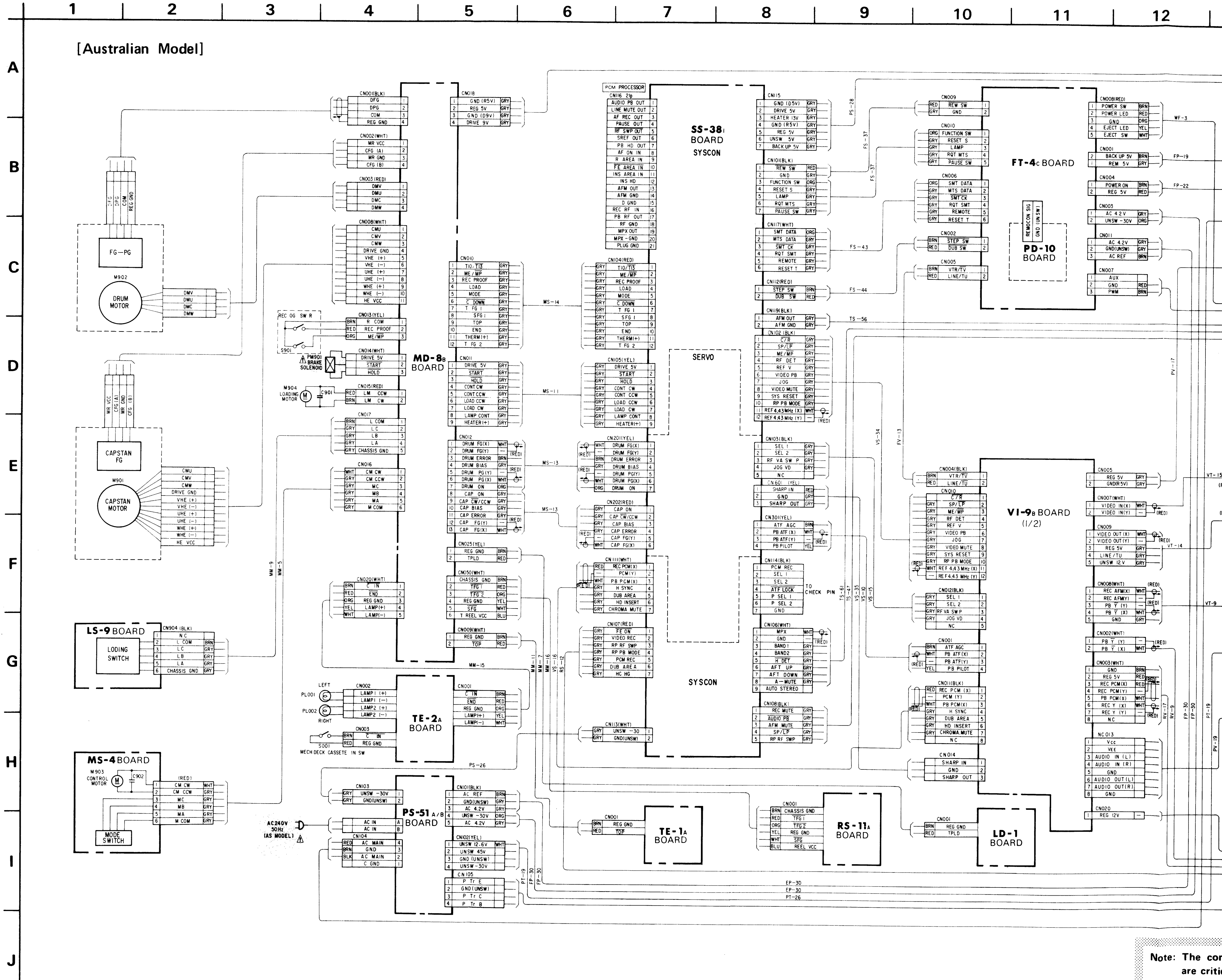
3-5. TUNER/AUDIO BLOCK DIAGRAM (2) [Australian Model]



RFU-844 (AS MODEL)
TA-29D BOARD (TUNER)
AERIAL IN
AERIAL OUT
BOOSTER
MIXER
RF MODULATOR
AUDIO IN
VIDEO IN
MODULATOR
TUNER
IF
L
H
U
VC
AGC
L001,002
W TUNE
Q001
PRE AMP
SF001
SAW FILTER
IC002
VIF AMP
IF AMP
RF AGC
LIMITER
VIDEO DET
AFT DET
L008
L007
RV001
AGC
CT001
SIF TRAP
Q002
BUFFER
VIDEO OUT
(VIDEO BLOCK)
IC006
PLL
VCO
PHASE COMP
LPF
Q010
SYNC SEP
Q011
H DET
IC005
AFT UP DET
AFT DOWN DET
IC001
BAND DECORDER
VIDEO IN
(VIDEO BLOCK)
Q018
BUFFER
VIDEO IN
(AFM AUDIO BLOCK)
Q013,014
AMP
SYSTEM CONTROL BLOCK
BAND 1
BAND 2
Q008
H DET
AFT UP
AFT DOWN
AUDIO MUTE
TIMER BLOCK
PWM
LINE/TV
Q006
D-A CONVERTER
Q004
LPF
Q009
POWER BLOCK
UNSWD 50V
UNSWD 12V
IC004
+33V REG
REG 5V
Q016,017
SWITCH
REG 12V
Q005
DELAY
D003,005,006
CF001
SIF BPF
IC003
SIF AMP LIMITER
SOUND DET
CD001
DISCRIM-INATOR
Q012
MUTE
Q007
BUFFER
AUDIO OUT
(AFM AUDIO BLOCK)
MPX
(SYSTEM CONTROL BLOCK)


VIDEO OUT (VIDEO BLOCK)
Q010
SYNC SEP
14
Q012
MUTE
Q007
BUFFER
AUDIO OUT (AFM AUDIO BLOCK)
MPX (SYSTEM CONTROL BLOCK)

4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS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A
B
C
D
E
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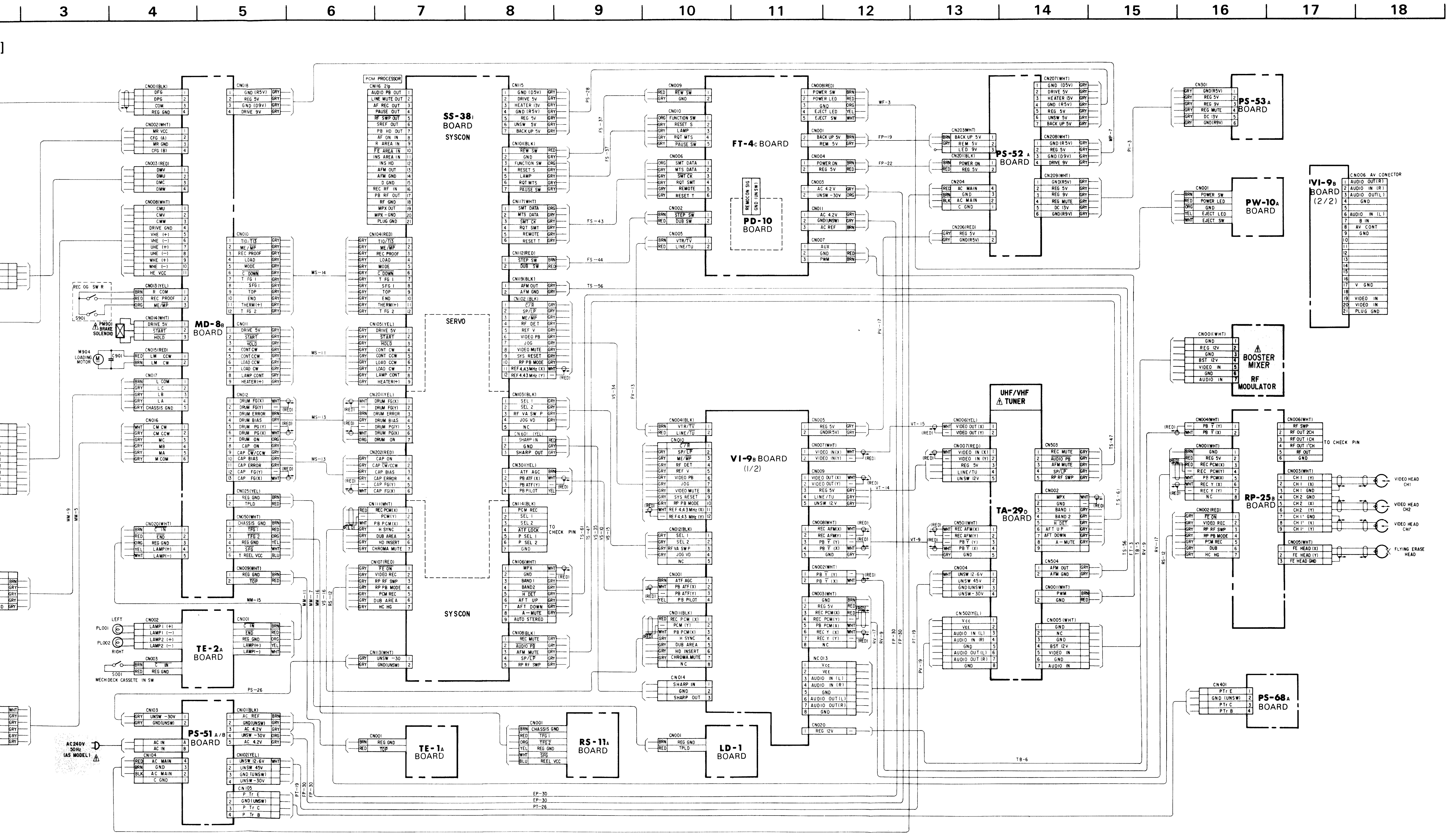
G
H
I
J
[Australian Model]
FG-PG
M902
DRUM MOTOR
CAPSTAN FG
M901
CAPSTAN MOTOR
LS-9 BOARD
LODING SWITCH
MS-4 BOARD
M903 CONTROL MOTOR
MODE SWITCH
MD-8B BOARD
REC OG SW R
S901
PM901 BRAKE SOLENOID
M904 LOADING MOTOR
TE-2A BOARD
LEFT
RIGHT
PL001
PL002
S001 MECH DECK CASSETE IN SW
PS-51 A/B BOARD
AC240V 50Hz (AS MODEL)
SS-38I BOARD SYSCON
PCM PROCESSOR
SERVO
SYSCON
TE-1A BOARD
RS-11A BOARD
LD-1 BOARD
FT-4C BOARD
PD-10 BOARD
VI-9B BOARD (1/2)
TO CHECK PIN
MS-14
MS-11
MS-13
MM-15
PS-26
EP-30
PT-26
FS-37
FS-43
FS-44
TS-56
WF-3
FP-19
FP-22
VT-14
VT-9

[Australian Model]

Note: The cor
are critic
specified


3
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7
8
9
10
11
12
13
14
15
16
17
18
MD-8B BOARD
PCM PROCESSOR
SS-38I BOARD SYSCON
SERVO
SYSCON
FT-4C BOARD
PD-10 BOARD
PS-52A BOARD
PS-53A BOARD
PW-10A BOARD
VI-9B BOARD (2/2)
BOOSTER MIXER
RF MODULATOR
UHF/VHF TUNER
VI-9B BOARD (1/2)
TA-29D BOARD
RP-25B BOARD
PS-68A BOARD
TE-2A BOARD
TE-1A BOARD
RS-11A BOARD
LD-1 BOARD
PS-51A/B BOARD
AC240V 50Hz (AS MODEL)
M904 LOADING MOTOR
PM901 BRAKE SOLENOID
S001 MECH DECK CASSETE IN SW
TO CHECK PIN
VIDEO HEAD CH1
VIDEO HEAD CH2
FLYING ERASE HEAD

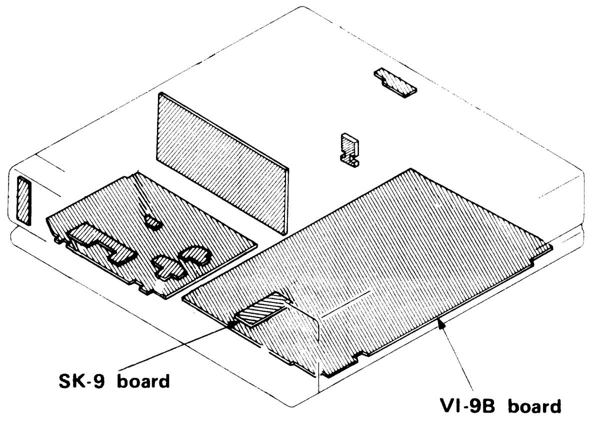
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note (Schematic Diagram):

- All capacitors are in μF unless otherwise noted, pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- : nonfiammable resistor.
- : fusible resistor.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

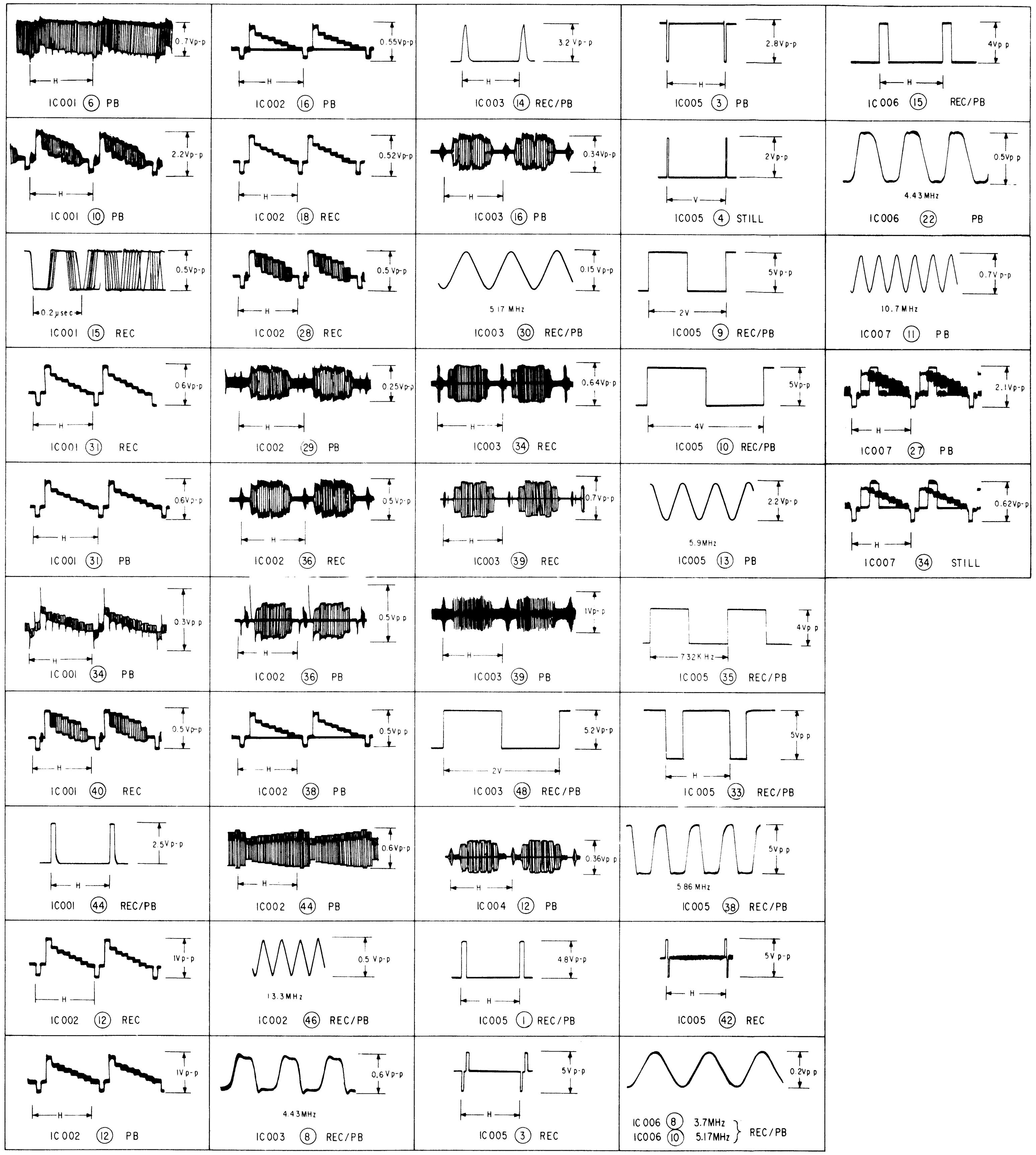
When indicating parts by reference number, please include the board name.

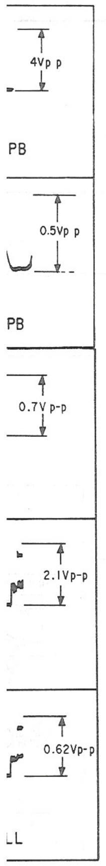


Note (Printed Wiring Board):

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- ░ : B + pattern.
- Digital transistor (VI-9B: Q002, 011, 014, 015, 017, 021, 100, 101, 107, 108, 109, 201, 205, 206, 207, 213, 214, 218, 258, 300) transistor with resistors. Refer to the VI-9B board schematic disgram for digital transistor.
- Digital transistor (SK-9: Q401) transistor with resistors. Refer to the SK-9 board schematic diagram for digital transistor.

VI-9B BOARD



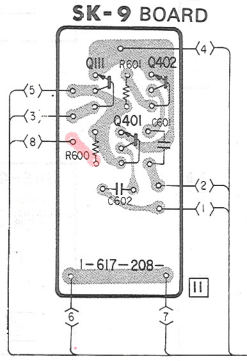

4Vp p
PB
0.5Vp p
PB
0.7V p-p
2.1Vp-p
0.62Vp-p
LL

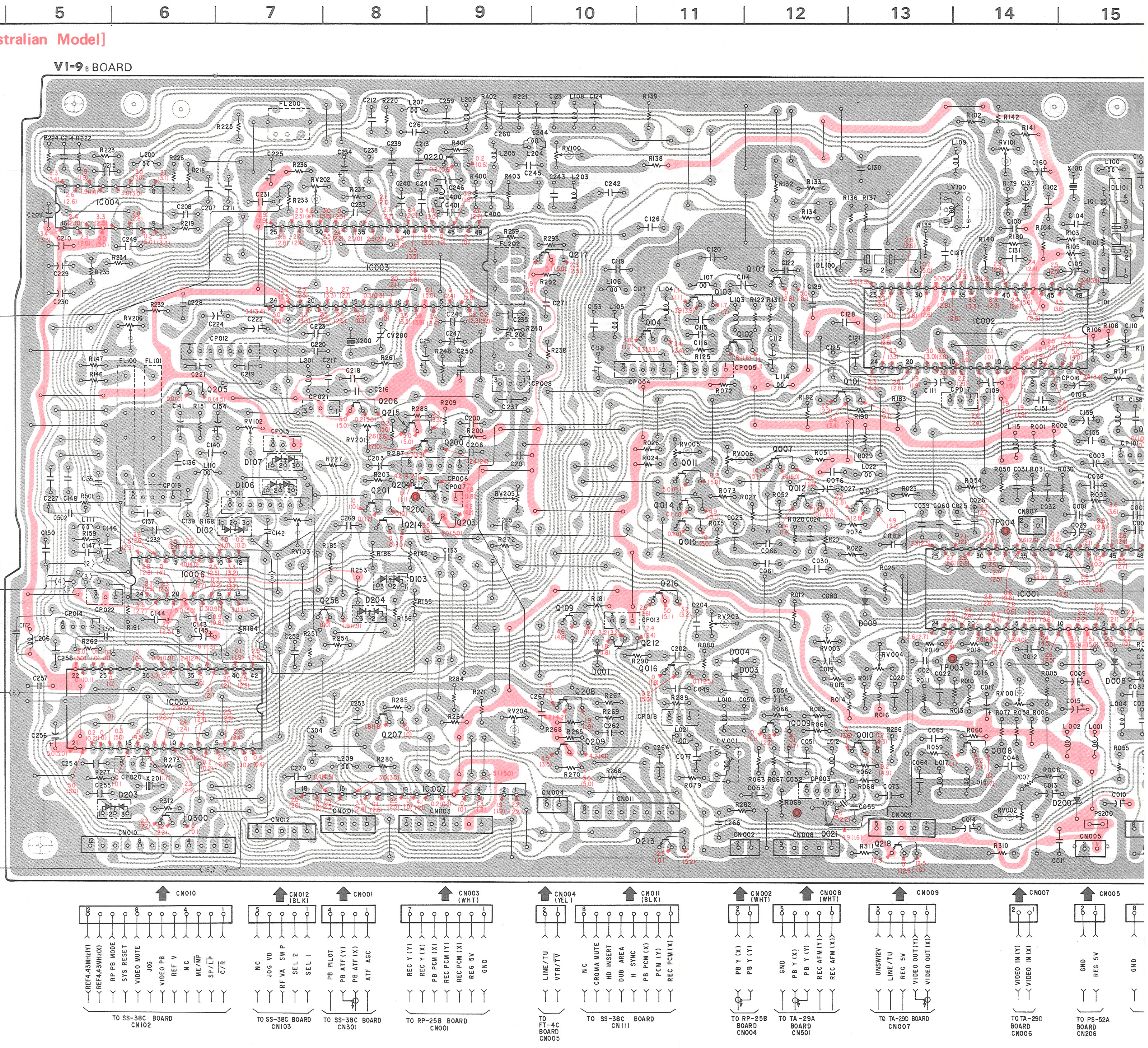
VI-9B (VIDEO BOARD), SK-9 PRINTED WIRING BOARD

–Ref. No. VI-9B BOARD, SK-9 BOARD: 1000 series–

[AEP/UK/Australian Model]

	IC, Q	D	ADJ	TP
A				
B	220, IC004		101, 100, 202	
C	IC003, 217, 107, IC002, 103, 002, 104		206	
D	102, 100, 110, 205, 101, 108, 206, 215, 106, 105	104, 105	201, 102	
E	200, 007, 011, 204, 012, 013, 017, 201, 014, 015, 203, 214	107, 010, 106, 002, 102, 006	005, 006, 205, 103	200, 004,001
F	IC006, IC001, 216, 258, 109, 212, 004	005, 103, 009, 204, 001, 008, 004	203, 003, 004	003
G	016, 003, IC005, 208, 207, 009, 010, 008, 209	003	001, 204	002
H	IC008, IC007, 300, 021, 213, 218	200, 203	002	202
I				
J				
	IC, Q	D	ADJ	TP


SK-9 BOARD
Q111
R601
Q402
Q401
R600
C602
1-617-208-
11


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J
VI-9B BOARD
IC001
IC002
IC003
IC004
IC005
IC006
IC007
CN010
CN012 (BLK)
CN001
CN003 (WHT)
CN004 (YEL)
CN011 (BLK)
CN002 (WHT)
CN008 (WHT)
CN009
CN007
CN005
REF4.43MHz(Y)
REF4.43MHz(X)
RP PB MODE
SYS RESET
VIDEO MUTE
JOG
VIDEO PB
REF V
NC
ME/MP
SP/LP
C/R
TO SS-38C BOARD CN102
NC
JOG VD
RF VA SW P
SEL 2
SEL 1
TO SS-38C BOARD CN103
PB PILOT
PB ATF (Y)
PB ATF (X)
ATF AGC
TO SS-38C BOARD CN301
REC Y (Y)
REC Y (X)
PB PCM (X)
REC PCM (Y)
REC PCM (X)
REG 5V
GND
TO RP-25B BOARD CN001
LINE/TU
VTR/TV
TO FT-4C BOARD CN005
NC
CROMA MUTE
HD INSERT
DUB AREA
H SYNC
PB PCM (X)
PCM (Y)
REC PCM (X)
TO SS-38C BOARD CN111
PB Y (X)
PB Y (Y)
TO RP-25B BOARD CN004
GND
PB Y (X)
PB Y (Y)
REC AFM (Y)
REC AFM (X)
TO TA-29A BOARD CN501
UNSW12V
LINE/TU
REG 5V
VIDEO OUT (Y)
VIDEO OUT (X)
TO TA-29D BOARD CN007
VIDEO IN (Y)
VIDEO IN (X)
TO TA-29D BOARD CN006
GND
REG 5V
TO PS-52A BOARD CN206
GND

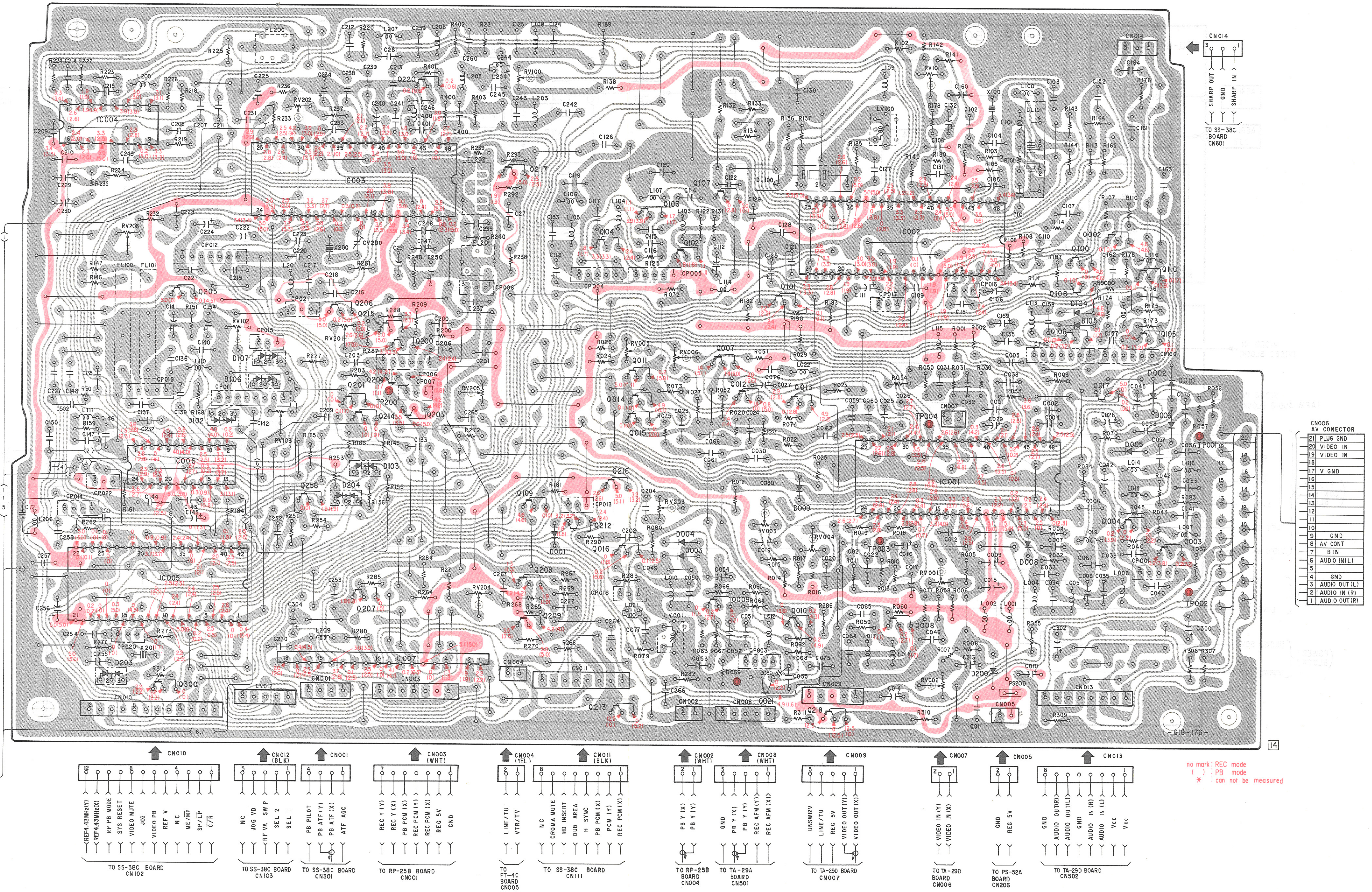
NTED WIRING BOARD

3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

ꞮD: 1000 series– [AEP/UK/Australian Model]

Q	D	ADJ	TP
		100 101	
		202	
107			
IC002			
103			
002		206	
102 100			
110			
101 108			
	104		
	105		
106		201	
105		102	
007	107	005	
		006	
011	010		
	106		
	002		
012		205	
013 017			200
		103	
	102 006		004,001
	005		
	103		
IC001	009		
216			
9	204	203	
2 004		003	
	001 008	004	003
	004		
016 003	003		
		001	
009		204	002
010 008			
IC008			
7	200		
			202
	203	002	
021			
213 218			
Q	D	ADJ	TP

VI-9 B BOARD

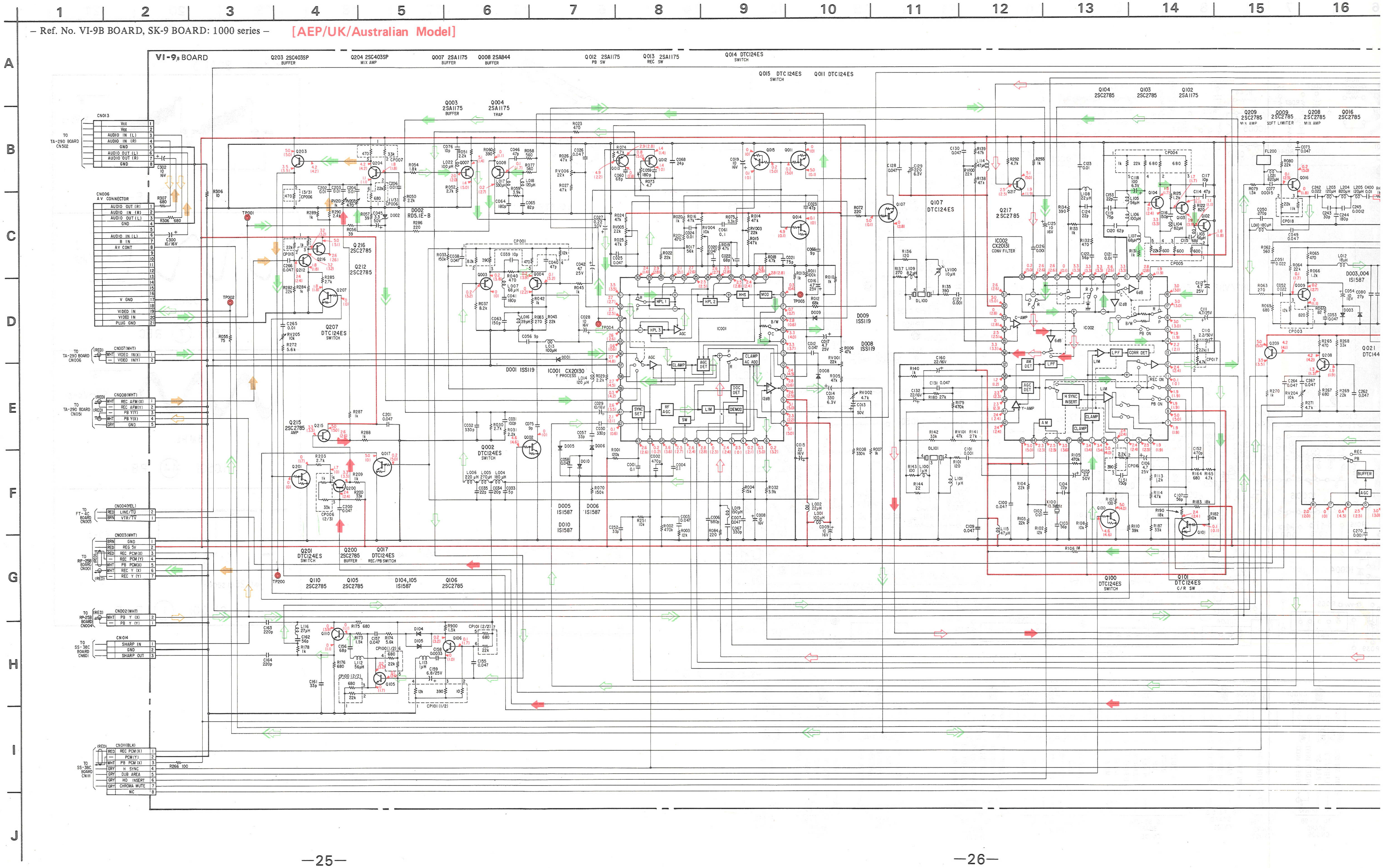

IC001
IC002
IC003
IC004
IC005
IC006
IC007
IC008
TP001
TP002
TP003
TP004
TP200
1-616-176-
14
CN014
SHARP OUT
GND
SHARP IN
TO SS-38C BOARD CN601
CN006 AV CONECTOR
21 PLUG GND
20 VIDEO IN
19 VIDEO IN
18
17 V GND
16
15
14
13
12
11
10
9 GND
8 AV CONT
7 B IN
6 AUDIO IN(L)
5
4 GND
3 AUDIO OUT(L)
2 AUDIO IN (R)
1 AUDIO OUT(R)
CN010
REF4.43MHz(Y)
REF4.43MHz(X)
RP PB MODE
SYS RESET
VIDEO MUTE
JOG
VIDEO PB
REF V
NC
ME/MP
SP/LP
C/R
TO SS-38C BOARD CN102
CN012 (BLK)
NC
JOG VD
RF VA SW P
SEL 2
SEL 1
TO SS-38C BOARD CN103
CN001
PB PILOT
PB ATF (Y)
PB ATF (X)
ATF AGC
TO SS-38C BOARD CN301
CN003 (WHT)
REC Y (Y)
REC Y (X)
PB PCM (X)
REC PCM (Y)
REC PCM (X)
REG 5V
GND
TO RP-25B BOARD CN001
CN004 (YEL)
LINE/TU
VTR/TV
TO FT-4C BOARD CN005
CN011 (BLK)
NC
CROMA MUTE
HD INSERT
DUB AREA
H SYNC
PB PCM (X)
PCM (Y)
REC PCM (X)
TO SS-38C BOARD CN111
CN002 (WHT)
PB Y (X)
PB Y (Y)
TO RP-25B BOARD CN004
CN008 (WHT)
GND
PB Y (X)
PB Y (Y)
REC AFM (Y)
REC AFM (X)
TO TA-29A BOARD CN501
CN009
UNSW12V
LINE/TU
REG 5V
VIDEO OUT (Y)
VIDEO OUT (X)
TO TA-29D BOARD CN007
CN007
VIDEO IN (Y)
VIDEO IN (X)
TO TA-29D BOARD CN006
CN005
GND
REG 5V
TO PS-52A BOARD CN206
CN013
GND
AUDIO OUT(R)
AUDIO OUT(L)
GND
AUDIO IN (R)
AUDIO IN (L)
VEE
Vcc
TO TA-29D BOARD CN502

no mark : REC mode
( ) : PB mode
* : can not be measured

VI-9B (VIDEO BOARD), SK-9 SCHEMATIC DIAGRAM

– Ref. No. VI-9B BOARD, SK-9 BOARD: 1000 series –

[AEP/UK/Australian Model]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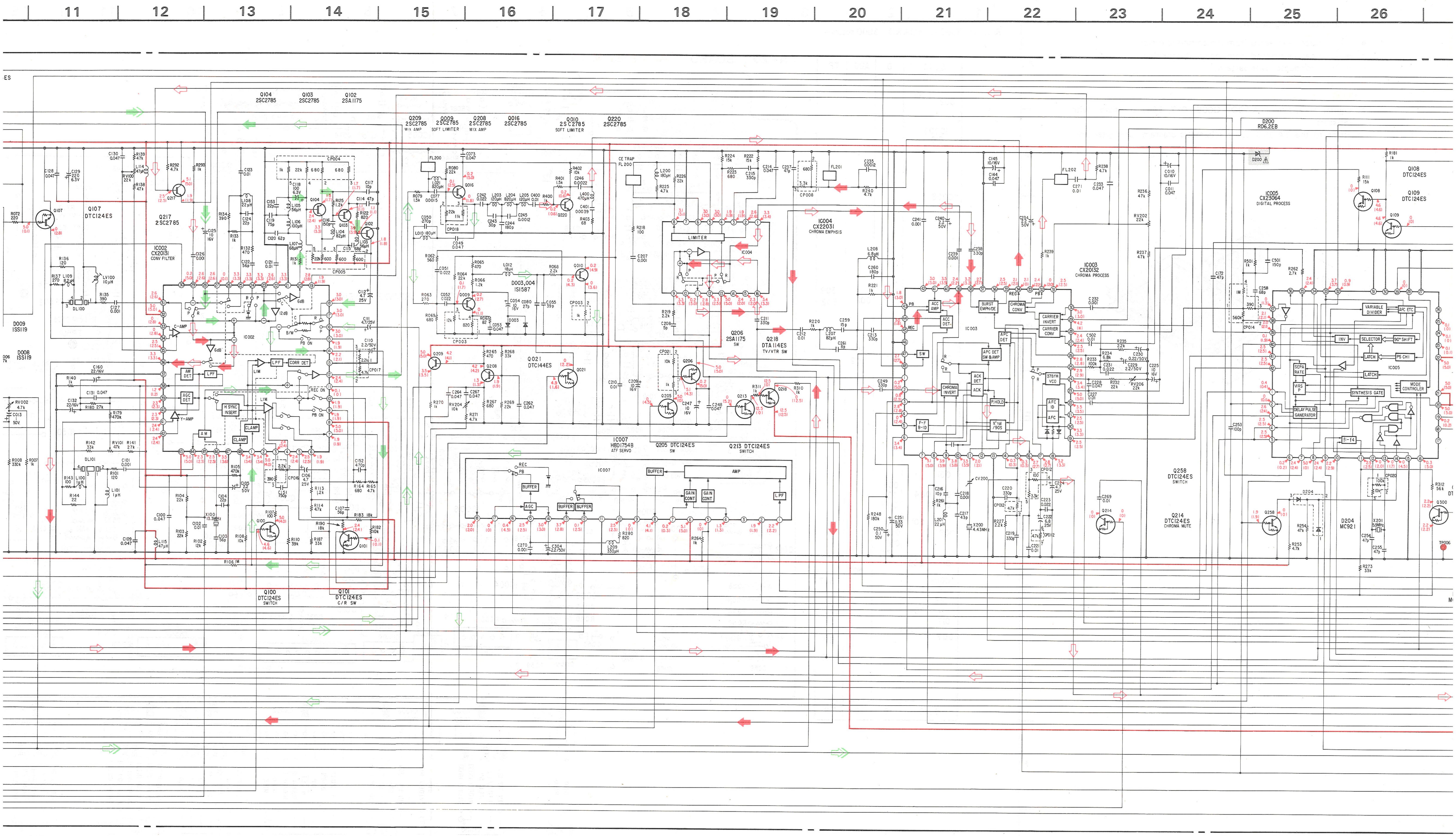
16
A
B
C
D
E
F
G
H
I
J
VI-9B BOARD
Q203 2SC403SP BUFFER
Q204 2SC403SP MIX AMP
Q007 2SA1175 BUFFER
Q008 2SA844 BUFFER
Q012 2SA1175 PB SW
Q013 2SA1175 REC SW
Q014 DTC124ES SWITCH
Q015 DTC124ES SWITCH
Q011 DTC124ES
Q003 2SA1175 BUFFER
Q004 2SA1175 TRAP
Q104 2SC2785
Q103 2SC2785
Q102 2SA1175
Q209 2SC2785 MIX AMP
Q009 2SC2785 SOFT LIMITER
Q208 2SC2785 MIX AMP
Q016 2SC2785
CN013
TO TA-290 BOARD CN502
Vcc
AUDIO IN (L)
AUDIO IN (R)
GND
AUDIO OUT (L)
AUDIO OUT (R)
CN006 AV CONNECTOR
AUDIO OUT (R)
AUDIO IN (L)
AV CONT
V GND
VIDEO IN
VIDEO OUT
PLUG GND
Q216 2SC2785
Q212 2SC2785
Q207 DTC124ES SWITCH
D002 RD5.1E-B
Q107 DTC124ES
Q217 2SC2785
IC002 CX20131 CONV FILTER
IC001 CX20130 Y PROCESS
D001 ISS119
D009 ISS119
D008 ISS119
D003,004 ISS87
TO TA-290 BOARD CN006
CN007(WHT)
VIDEO IN(X)
VIDEO IN(Y)
TO TA-290 BOARD CN505
CN008(WHT)
REC AFM(X)
REC AFM(Y)
PB Y(X)
PB Y(Y)
GND
Q215 2SC2785 AMP
Q002 DTC124ES SWITCH
D005 ISS87
D006 ISS87
D010 ISS87
Q201 DTC124ES SWITCH
Q200 2SC2785 BUFFER
Q017 DTC124ES REC/PB SWITCH
Q110 2SC2785
Q105 2SC2785
D104,105 ISS87
Q106 2SC2785
Q100 DTC124ES SWITCH
Q101 DTC124ES C/R SW
TO FT-4C BOARD CN005
CN004(YEL)
LINE/TU
VTR/TV
TO RP-25B BOARD CN001
CN003(WHT)
GND
REG 5V
REC PCM(X)
REC PCM(Y)
PB PCM(X)
REC Y(X)
REC Y(Y)
TO RP-25B BOARD CN004
CN002(WHT)
PB Y(X)
PB Y(Y)
TO SS-38C BOARD CN601
CN014
SHARP IN
GND
SHARP OUT
TO SS-38C BOARD CN111
CN011(BLK)
REC PCM(X)
PCM(Y)
PB PCM(X)
H SYNC
DUB AREA
HD INSERT
CHROMA MUTE
NC
TP001
TP002
TP200
TP003
TP004
CLAMP
AGC
SYNC SEP
HPL 1
HPL 2
MOD
DOC DET
DEMOD
LIM
RF AGC
SW
AM
LPF
CORR DET
REC ON
PB ON
C-AMP
Y-AMP
H SYNC INSERT
BUFFER
AGC
REC
PB


11
12
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14
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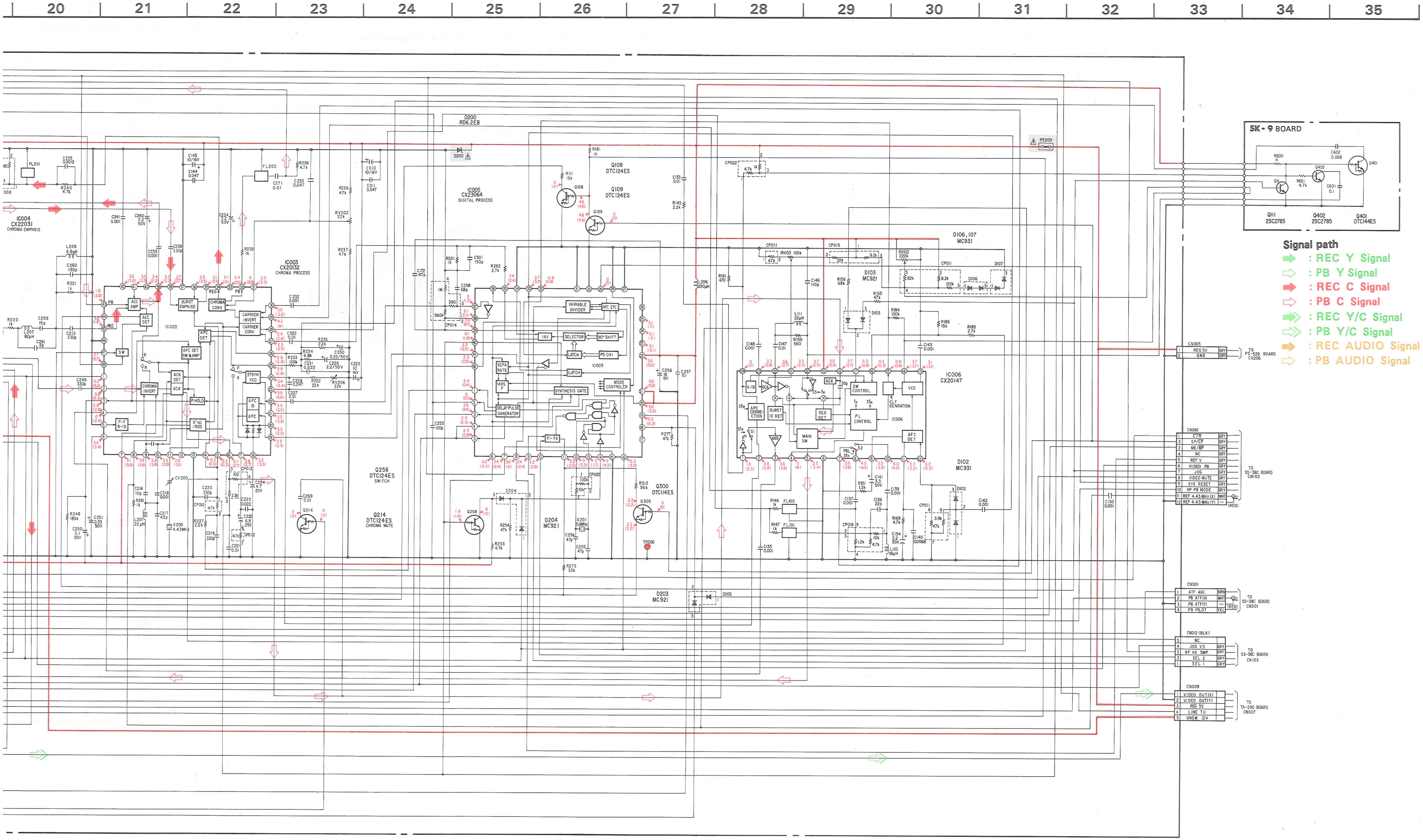
16
17
18
19
20
21
22
23
24
25
26
Q104 2SC2785
Q103 2SC2785
Q102 2SA1175
Q209 2SC2785 MIX AMP
Q009 2SC2785 SOFT LIMITER
Q208 2SC2785 MIX AMP
Q016 2SC2785
Q010 2SC2785 SOFT LIMITER
Q220 2SC2785
D200 RD6.2EB
Q107 DTC124ES
Q217 2SC2785
IC002 CX20131 CONV FILTER
D009 ISS119
D008 ISS119
CP004
CP005
CP003
CP006
CP008
CP017
D003,004 ISI587
Q021 DTC144ES
IC004 CX22031 CHROMA EMPHSIS
LIMITER
Q206 2SA1175 SW
Q218 DTA114ES TV/VTR SW
IC007 HBD1754B ATF SERVO
Q205 DTC124ES SW
Q213 DTC124ES SWITCH
IC003 CX20132 CHROMA PROCESS
IC005 CX23064 DIGITAL PROCESS
Q108 DTC124ES
Q109 DTC124ES
Q258 DTC124ES SWITCH
Q214 DTC124ES CHROMA MUTE
D204 MC921
Q100 DTC124ES SWITCH
Q101 DTC124ES C/R SW
C-AMP
Y-AMP
AGC DET
AM DET
LPF
H SYNC INSERT
CLAMP
LIM
CORR DET
REC ON
PB ON
BUFFER
AGC
GAIN CONT
AMP
ACC AMP
ACC DET
BURST EMPHA/DE
CHROMA CONV
CARRIER INVERT
APC DET
CHROMA INVERT
378fH VCO
AFC
X'tal /905
F-F B-ID
P.HOLD
VARIABLE DIVIDER
AFC ETC
SELECTOR
90° SHIFT
INV
LATCH
PS CHI
SYNTHESIS GATE
MODE CONTROLER
DELAY PULSE GANERATOR
SEPA RATE
VIRS P
fl-f4
CE TRAP FL200
FL201
FL202
X200 4.43MHz
X201 5.5MHz


20
21
22
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26
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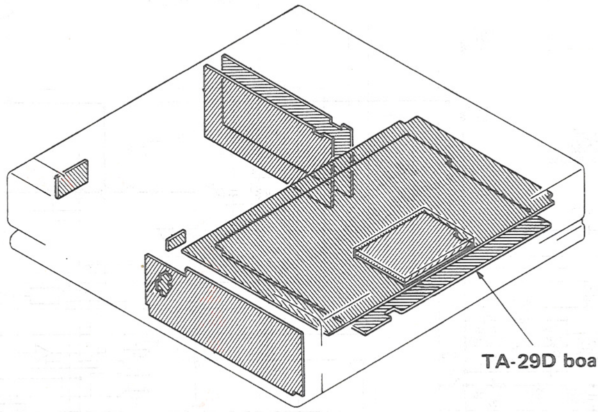
28
29
30
31
32
33
34
35
IC004
CX22031
CHROMA EMPHASIS
FL201
FL202
IC003
CX20132
CHROMA PROCESS
BURST EMPH/DE
CHROMA CONV
CARRIER INVERT
CARRIER CONV
ACC AMP
ACC DET
APC DET
APC DET SW & AMP
ACK DET
CHROMA INVERT
P.HOLD
X'tal /90S
F-F 8-10
D200
RD6.2EB
IC005
CX23064
DIGITAL PROCESS
VARIABLE DIVIDER
AFC ETC
INV
SELECTOR
90° SHIFT
LATCH
PS CH
SEPA RATE
MODE CONTROLER
SYNTHESIS GATE
DELAY PULSE GENERATOR
Q108
DTC124ES
Q109
DTC124ES
Q258
DTC124ES
SWITCH
Q214
DTC124ES
CHROMA MUTE
D204
MC921
Q300
DTC114ES
TP006
D203
MC921
PS200
D106, 107
MC931
D103
MC921
IC006
CX20147
SW CONTROL
VCO
CLF GENERATION
APC CORRECTION
BURST ID DET
SEG DET
MAIN SW
AFC DET
D102
MC931
SK-9 BOARD
Q111
2SC2785
Q402
2SC2785
Q401
DTC144ES
CN005
REG 5V
GND
TO PS-52B BOARD CN206
CN010
C/R
SP/LP
ME/MP
NC
REF V
VIDEO PB
JOG
VIDEO MUTE
SYS RESET
RP PB MODE
REF 4.43MHz (X)
REF 4.43MHz (Y)
TO SS-38C BOARD CN102
CN001
ATF AGC
PB ATF(X)
PB ATF(Y)
PB PILOT
TO SS-38C BOARD CN301
CN012 (BLK)
NC
JOG VD
RF VA SWP
SEL 2
SEL 1
TO SS-38C BOARD CN103
CN009
VIDEO OUT(X)
VIDEO OUT(Y)
REG 5V
LINE TU
UNSW 12V
TO TA-29D BOARD CN007

Signal path

- ➡ : REC Y Signal
- ⇨ : PB Y Signal
- ➡ : REC C Signal
- ⇨ : PB C Signal
- ➡ : REC Y/C Signal
- ⇨ : PB Y/C Signal
- ➡ : REC AUDIO Signal
- ⇨ : PB AUDIO Signal

Note (Printed Wiring Board):

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- ▨ : B + pattern.
- ▨ : B – pattern.
- Digital transistor (TA-29D: Q008, 017, 501) transistor with resistors.
  Refer to the TA-29D board schematic diagram for digital transistor.



TA-29D (TUNER/VIF/AFM) PRINTED WIRI

1 2 3

–Ref. No. TA-29D BOARD : 6000 series–

Q, IC	D	ADJ	TP
002 IC001			
IC005 010 008	502		
IC003			506
IC002		001 501 502	509 502 501
IC501 005			
001 011 004 IC006 501 009	008 005 003 006 001 007		
012 018 502 IC004 006 703 016 704 017	701	503	507
007			511 510
Q, IC	D	ADJ	TP

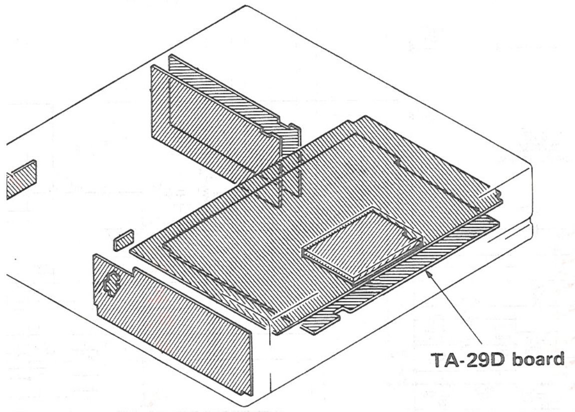
A B C D E F G H I J

ᑊrinted Wiring Board):

: parts extracted from the component side.
: parts extracted from the conductor side.
▨ : conductor side pattern.
🟥 : B + pattern.
🟧 : B – pattern.

ital transistor (TA-29D: Q008, 017, 501) transistor with
stors.

er to the TA-29D board schematic diagram for digital tran-
or.

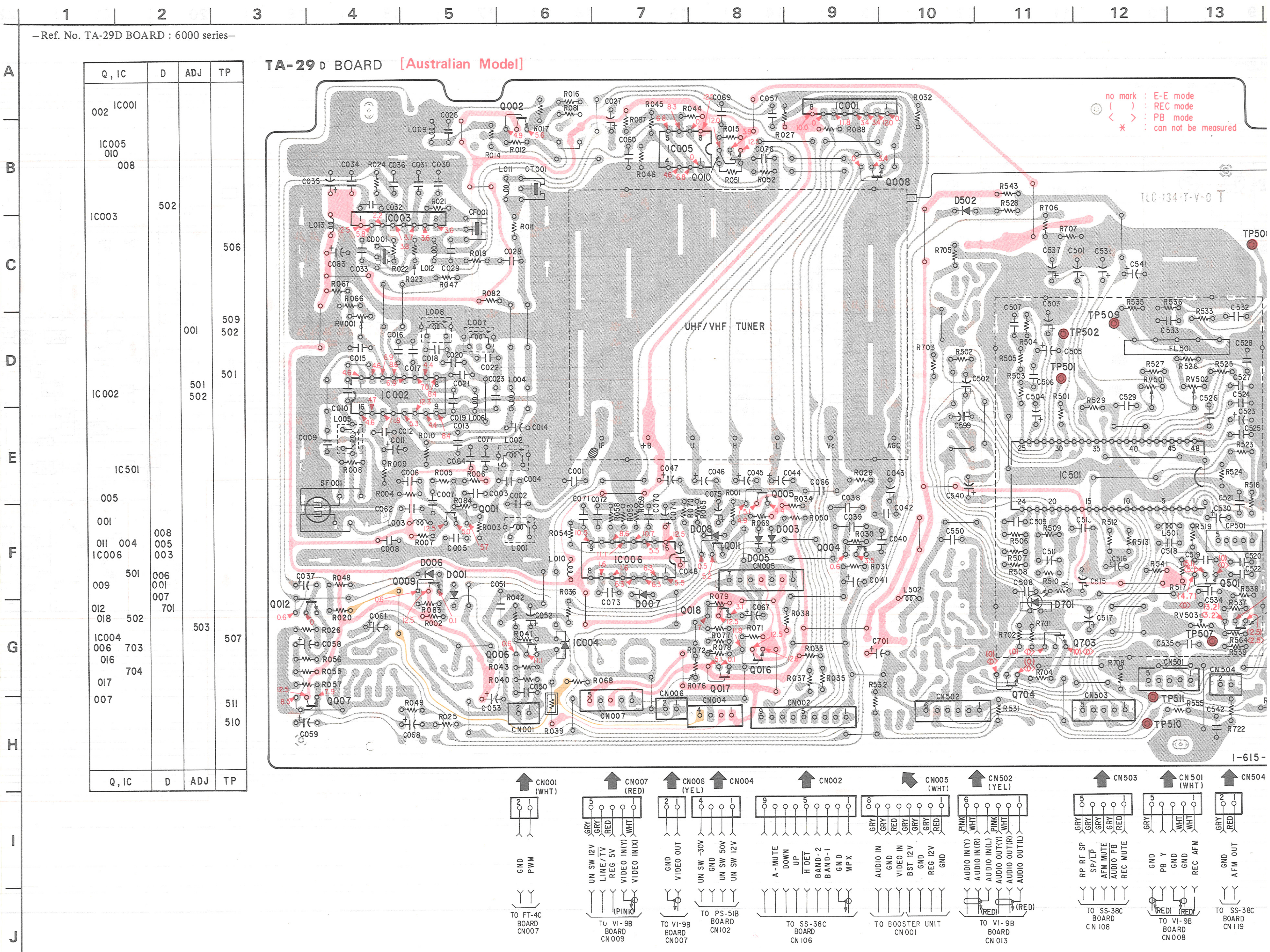

TA-29D board

TA-29D (TUNER/VIF/AFM) PRINTED WIRING BOARD

–Ref. No. TA-29D BOARD : 6000 series–

Q, IC	D	ADJ	TP
002 IC001			
IC005 010 008			
	502		
IC003			
			506
		001	509 502
			501
IC002		501 502	
IC501			
005			
001			
011 004 IC006	008 005 003		
501 009	006 001 007		
012 018 502	701		
		503	
IC004 006 703 016 704 017 007			507
			511
			510
Q, IC	D	ADJ	TP

TA-29 D BOARD [Australian Model]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UHF/VHF TUNER
IC001
IC002
IC003
IC004
IC005
IC006
IC501
Q001
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Q703
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D001
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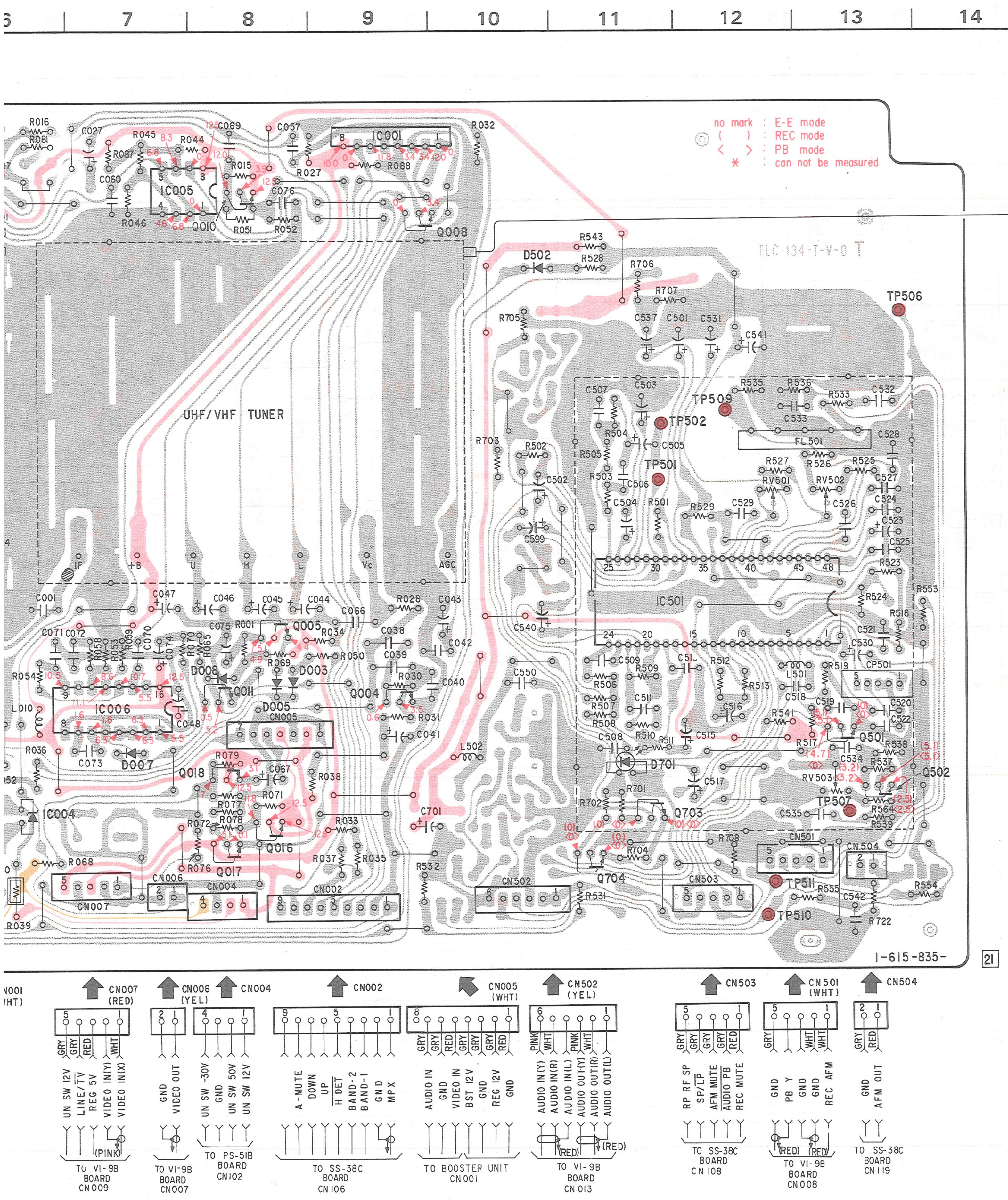
D008
D502
D701
CD001
CF001
SF001
FL501
CP501
RV001
RV501
RV502
RV503
TP501
TP502
TP507
TP509
TP510
TP511
+B
IF
U
H
L
Vc
AGC
TLC 134-T-V-0 T
1-615-
CN001 (WHT)
2 1
GND
PWM
TO FT-4C BOARD CN007
CN007 (RED)
5 1
GRY GRY RED WHT
UN SW 12V
LINE/TV
REG 5V
VIDEO IN(Y)
VIDEO IN(X)
(PINK)
TO VI-9B BOARD CN009
CN006 (YEL)
2 1
GND
VIDEO OUT
TO VI-9B BOARD CN007
CN004
4 1
UN SW -30V
GND
UN SW 50V
UN SW 12V
TO PS-51B BOARD CN102
CN002
9 5 1
A-MUTE
DOWN
UP
H DET
BAND-2
BAND-1
GND
MPX
TO SS-38C BOARD CN106
CN005 (WHT)
8 1
GRY GRY RED GRY GRY GRY RED
AUDIO IN
GND
VIDEO IN
BST 12V
GND
REG 12V
GND
TO BOOSTER UNIT CN001
CN502 (YEL)
6 1
PINK WHT PINK WHT
AUDIO IN(Y)
AUDIO IN(R)
AUDIO IN(L)
AUDIO OUT(Y)
AUDIO OUT(R)
AUDIO OUT(L)
(RED)
(RED)
TO VI-9B BOARD CN013
CN503
5 1
GRY GRY GRY GRY RED
RP RF SP
SP/LP
AFM MUTE
AUDIO PB
REC MUTE
TO SS-38C BOARD CN108
CN501 (WHT)
5 1
GRY WHT WHT
GND
PB Y
GND
GND
REC AFM
(RED) (RED)
TO VI-9B BOARD CN008
CN504
2 1
GRY RED
GND
AFM OUT
TO SS-38C BOARD CN119

no mark : E-E mode
( ) : REC mode
< > : PB mode
✻ : can not be measured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IC001
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Q004
Q005
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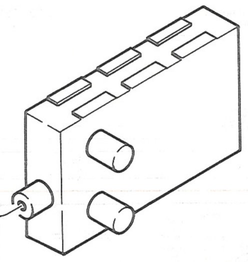
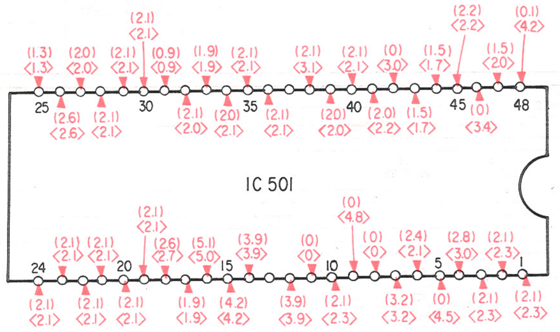
Q011
Q016
Q017
Q018
Q501
Q502
Q703
Q704
D003
D005
D007
D008
D502
D701
FL501
L501
L502
RV501
RV502
RV503
TP501
TP502
TP506
TP507
TP509
TP510
TP511
CN001
CN002
CN004
CN005
CN006
CN007
CN501
CN502
CN503
CN504
CP501
TLC 134-T-V-0 T
1-615-835-
21
CN007 (RED)
GRY GRY RED WHT
UN SW 12V
LINE/TV
REG 5V
VIDEO IN(Y)
VIDEO IN(X)
(PINK)
TO VI-9B BOARD CN009
CN006 (YEL)
GND
VIDEO OUT
TO VI-9B BOARD CN007
CN004
UN SW -30V
GND
UN SW 50V
UN SW 12V
TO PS-51B BOARD CN102
CN002
A-MUTE
DOWN
UP
H DET
BAND-2
BAND-1
GND
MPX
TO SS-38C BOARD CN106
CN005 (WHT)
GRY GRY RED GRY GRY GRY RED
AUDIO IN
GND
VIDEO IN
BST 12V
GND
REG 12V
GND
TO BOOSTER UNIT CN001
CN502 (YEL)
PINK WHT PINK WHT
AUDIO IN(Y)
AUDIO IN(R)
AUDIO IN(L)
AUDIO OUT(Y)
AUDIO OUT(R)
AUDIO OUT(L)
(RED) (RED)
TO VI-9B BOARD CN013
CN503
GRY GRY GRY GRY RED
RP RF SP
SP/LP
AFM MUTE
AUDIO PB
REC MUTE
TO SS-38C BOARD CN108
CN501 (WHT)
GRY WHT WHT
GND
PB Y
GND
GND
REC AFM
(RED) (RED)
TO VI-9B BOARD CN008
CN504
GRY RED
GND
AFM OUT
TO SS-38C BOARD CN119

no mark : E-E mode
( ) : REC mode
< > : PB mode
* : can not be measured



BOOSTER UNIT


IC 501
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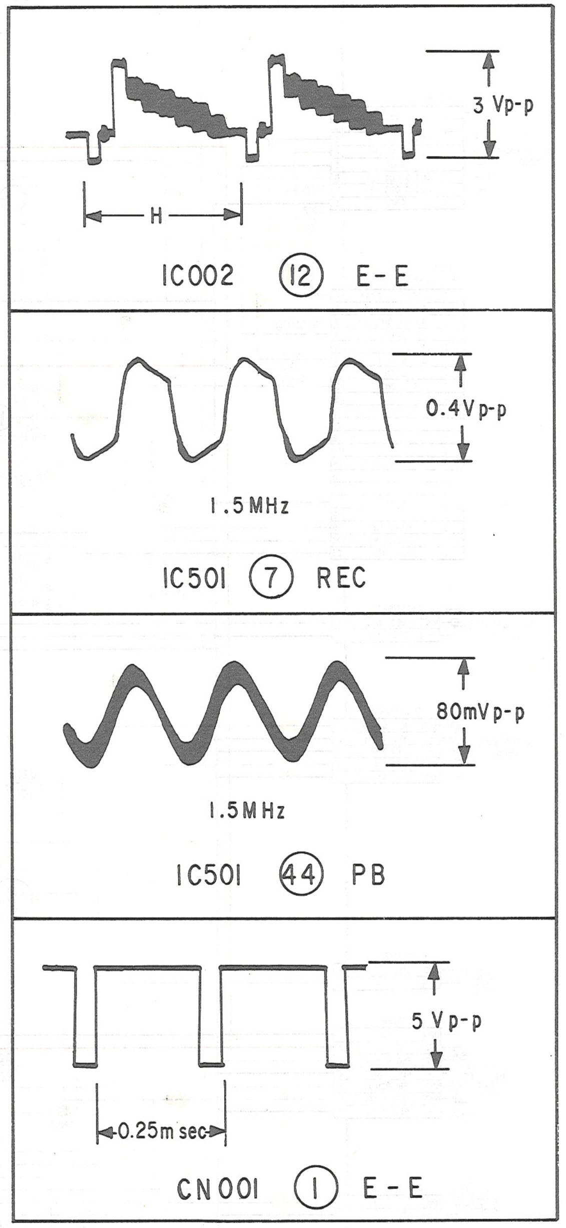
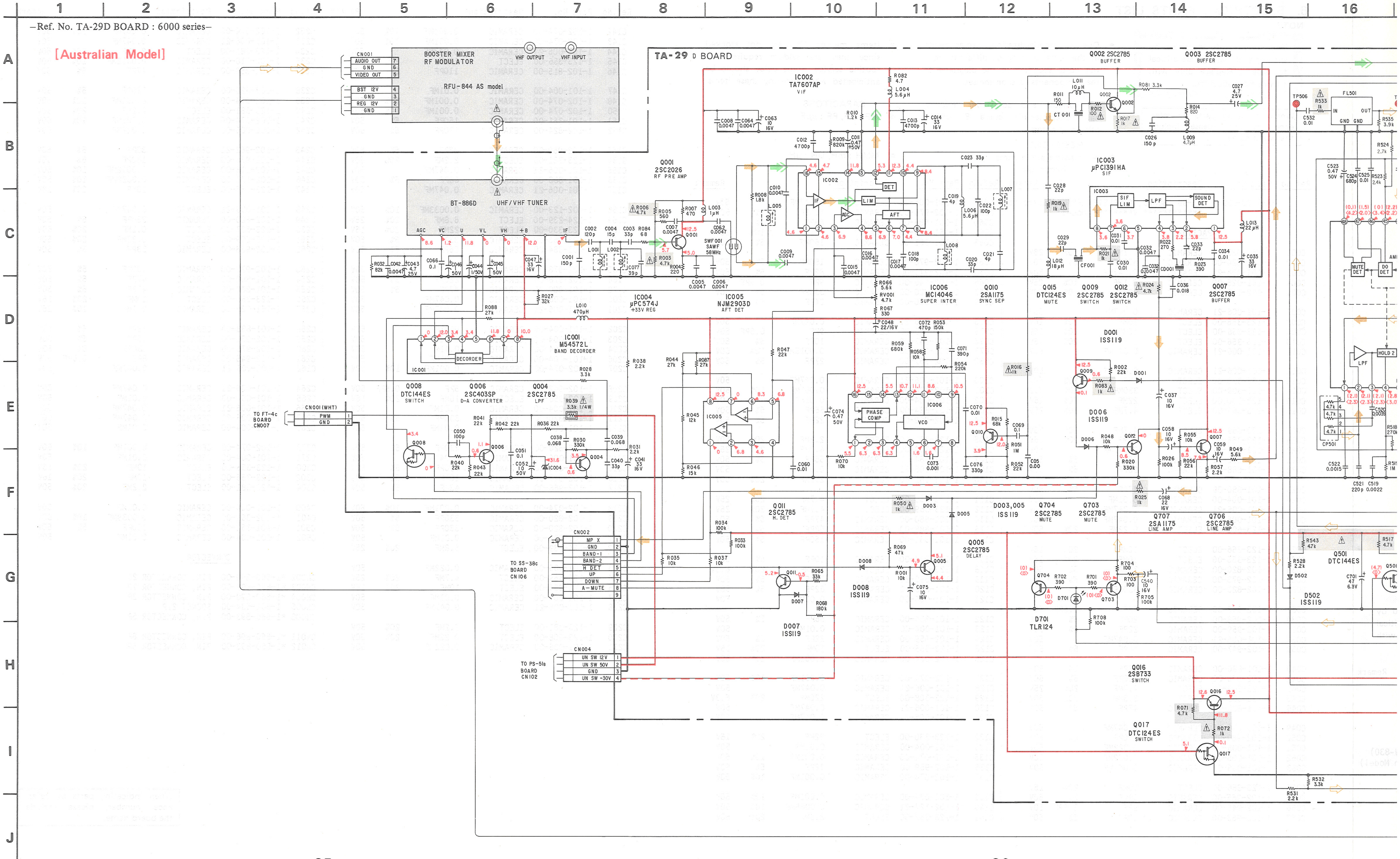
TA-29D BOARD



TA-29D (TUNER/VIF/AFM) SCHEMATIC DIAGRAM

–Ref. No. TA-29D BOARD : 6000 series–

[Australian Model]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A
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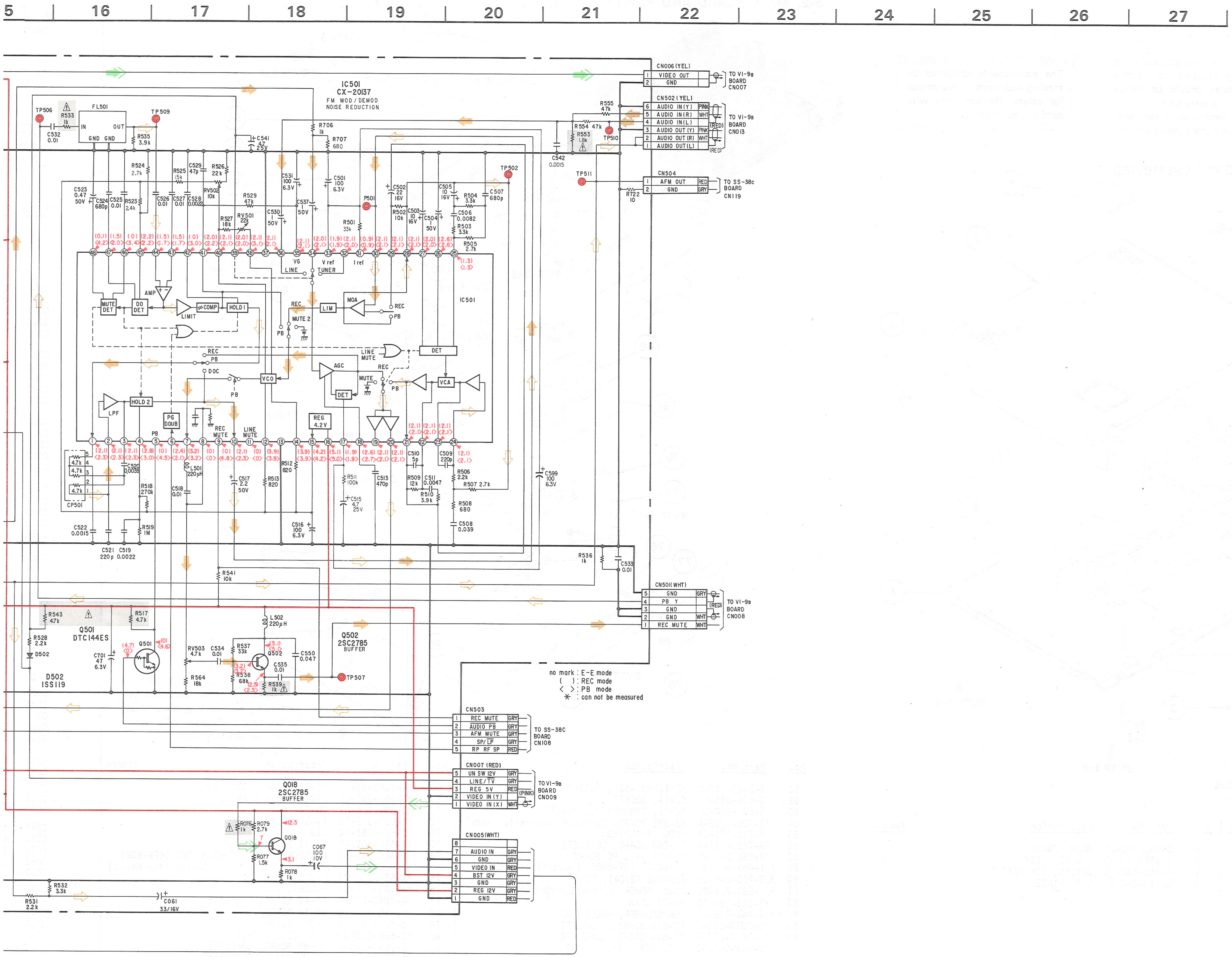
G
H
I
J
TA-29 D BOARD
CN001
AUDIO OUT
GND
VIDEO OUT
BST 12V
GND
REG 12V
GND
BOOSTER MIXER
RF MODULATOR
VHF OUTPUT
VHF INPUT
RFU-844 AS model
BT-886D
UHF/VHF TUNER
AGC
VC
U
VL
VH
+B
IF
IC001
M54572L
BAND DECORDER
DECORDER
IC002
TA7607AP
VIF
IC003
μPC1391HA
SIF
SIF LIM
LPF
SOUND DET
IC004
μPC574J
+33V REG
IC005
NJM2903D
AFT DET
IC006
MC14046
SUPER INTER
PHASE COMP
VCO
DET
LIM
AFT
AGC
IF
Q001
2SC2026
RF PRE AMP
Q002 2SC2785
BUFFER
Q003 2SC2785
BUFFER
Q004
2SC2785
LPF
Q006
2SC403SP
D-A CONVERTER
Q007
2SC2785
BUFFER
Q008
DTC144ES
SWITCH
Q009
2SC2785
SWITCH
Q010
2SA1175
SYNC SEP
Q011
2SC2785
H. DET
Q012
2SC2785
SWITCH
Q005
2SC2785
DELAY
Q015
DTC124ES
MUTE
Q016
2SB733
SWITCH
Q017
DTC124ES
SWITCH
Q703
2SC2785
MUTE
Q704
2SC2785
MUTE
Q706
2SC2785
LINE AMP
Q707
2SA1175
LINE AMP
Q501
DTC144ES
D001
ISS119
D003,005
ISS119
D006
ISS119
D007
ISS119
D008
ISS119
D502
ISS119
D701
TLR124
SWF001
SAWF
58MHz
FL501
TP506
CP501
MUTE DET
DO DET
HOLD 2
LPF
CN001 (WHT)
PWM
GND
TO FT-4c
BOARD
CN007
CN002
MP X
GND
BAND-1
BAND-2
H DET
UP
DOWN
A-MUTE
TO SS-38c
BOARD
CN106
CN004
UN SW 12V
UN SW 50V
GND
UN SW -30V
TO PS-51a
BOARD
CN102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IC501
CX-20137
FM MOD/DEMOD
NOISE REDUCTION
FL501
IN
OUT
GND GND
TP506
TP509
TP502
TP501
TP510
TP511
TP507
R533 1k
C532 0.01
R535 3.9k
C541 47 25V
R706 1k
R707 680
R555 47k
R554 47k
R553 1.8k
C542 0.0015
R722 10
MUTE DET
DO DET
AMP
LIMIT
COMP
HOLD 1
HOLD 2
LPF
PG DOUB
REC MUTE
LINE MUTE
VCO
AGC
DET
MUTE 2
LIM
MOA
VCA
REG 4.2V
VG
V ref
LINE
TUNER
I ref
REC
PB
DOC
CP501
L501 220μH
L502 220μH
Q501
DTC144ES
Q502
2SC2785
BUFFER
D502
1SS119
Q018
2SC2785
BUFFER
R543 47k
R517 4.7k
R528 2.2k
C701 47 6.3V
RV503 4.7k
C534 0.01
R537 33k
R564 18k
R538 68k
C535 0.01
C550 0.047
R539 1k
R541 10k
R536 1k
C533 0.01
C599 100 6.3V
R076 1k
R079 2.7k
R077 1.5k
R078 1k
C067 100 10V
R532 3.3k
R531 2.2k
C061 33/16V
CN006 (YEL)
1 VIDEO OUT
2 GND
TO VI-9B BOARD CN007
CN502 (YEL)
6 AUDIO IN (Y) PINK
5 AUDIO IN (R) WHT
4 AUDIO IN (L)
3 AUDIO OUT (Y) PINK
2 AUDIO OUT (R) WHT
1 AUDIO OUT (L)
(RED)
TO VI-9B BOARD CN013
CN504
1 AFM OUT RED
2 GND GRY
TO SS-38c BOARD CN119
CN501 (WHT)
5 GND GRY
4 PB Y
3 GND
2 GND WHT
1 REC MUTE WHT
TO VI-9B BOARD CN008
no mark : E-E mode
( ) : REC mode
< > : PB mode
✳ : can not be measured
CN503
1 REC MUTE GRY
2 AUDIO PB GRY
3 AFM MUTE GRY
4 SP/LP GRY
5 RP RF SP RED
TO SS-38C BOARD CN108
CN007 (RED)
5 UN SW 12V GRY
4 LINE/TV GRY
3 REG 5V RED
2 VIDEO IN (Y)
1 VIDEO IN (X) WHT
(PINK)
TO VI-9B BOARD CN009
CN005 (WHT)
8
7 AUDIO IN GRY
6 GND GRY
5 VIDEO IN RED
4 BST 12V GRY
3 GND GRY
2 REG 12V GRY
1 GND RED

Note (Schematic Diagram):

- All capacitors are in μF unless otherwise noted, pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Signal path

- ➡ : REC Y/C Signal
- ⇨ : PB Y/C Signal
- ➡ : REC AUDIO Signal
- ⇨ : PB AUDIO Signal

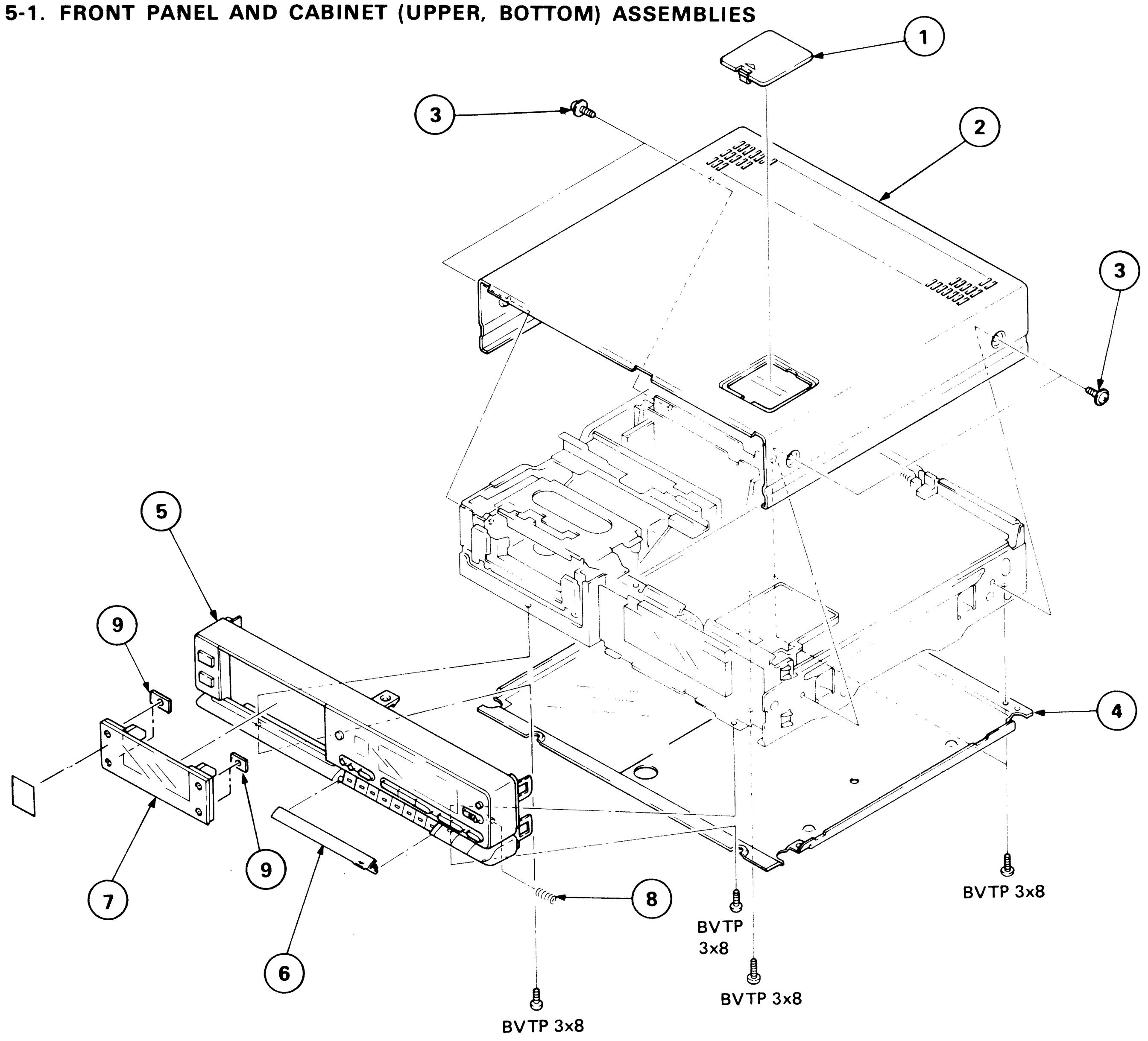
5. EXPLODED VIEWS

NOTE:

- Itmes with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-1. FRONT PANEL AND CABINET (UPPER, BOTTOM) ASSEMBLIES



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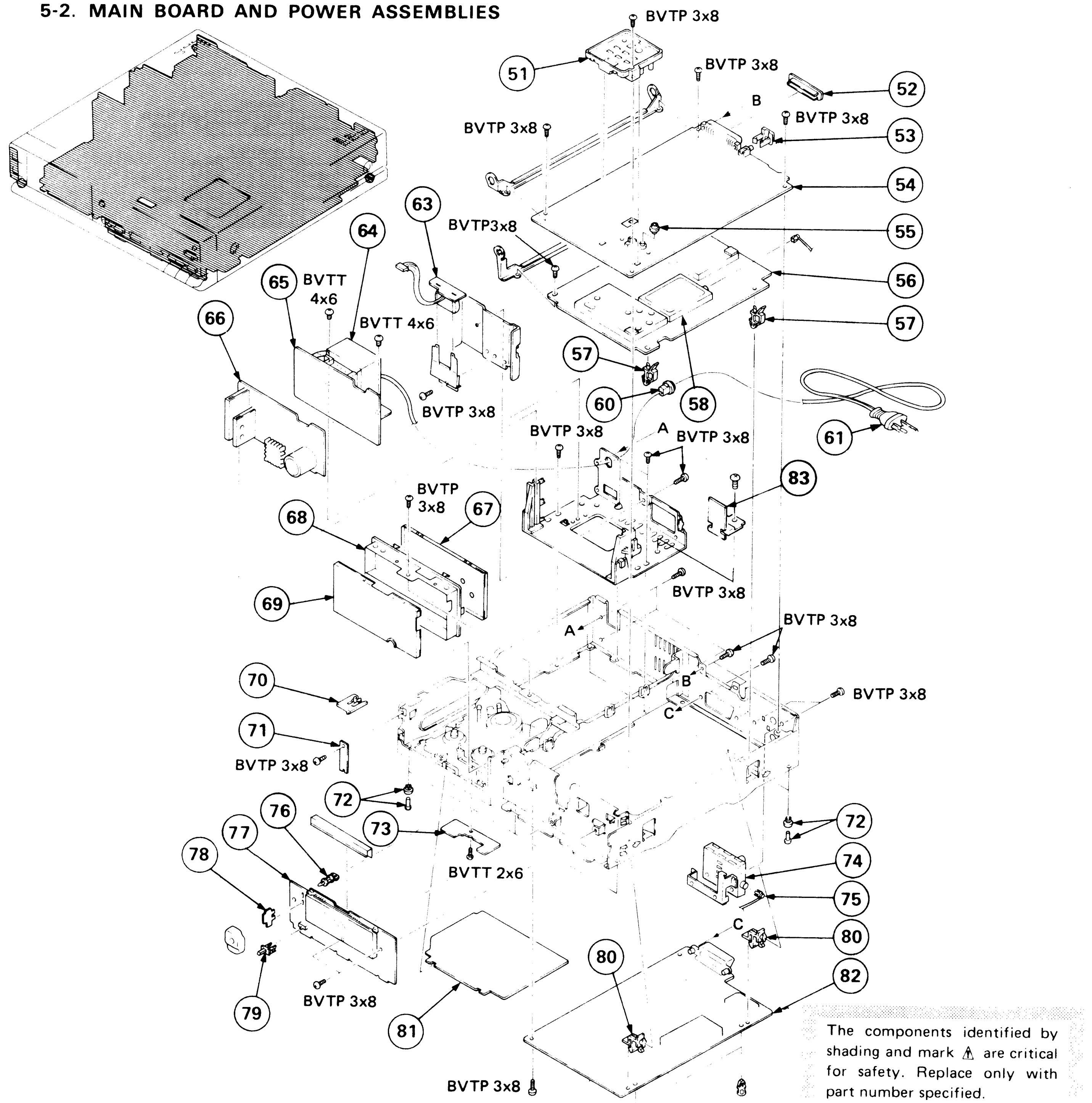
BVTP 3x8
BVTP 3x8
BVTP 3x8
BVTP 3x8

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	*2-352-647-01	LID, PRESET		6	3-691-902-01	DOOR, FRONT	
2	3-691-908-01	CASE, UPPER		7	X-3689-007-1	LID (L) ASSY	9
3	4-886-821-01	SCREW, M3 CASE		8	4-869-230-00	SPRING, COMPRESSION	
4	*X-3689-011-1	PLATE ASSY, BOTTOM		9	*3-689-040-01	NUT, PLATE	
5	X-3689-063-1	PANEL ASSY (LAS), FRONT (Australian Model)	8				

5-2. MAIN BOARD AND POWER ASSEMBLIES



BVTP 3x8
51
BVTP 3x8
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B
BVTP 3x8
BVTP 3x8
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BVTP3x8
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BVTT 4x6
BVTT 4x6
66
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57
60
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BVTP 3x8
61
BVTP 3x8
A
BVTP 3x8
83
BVTP 3x8
68
67
69
BVTP 3x8
BVTP 3x8
A
70
B
C
BVTP 3x8
71
BVTP 3x8
72
72
76
73
77
74
78
BVTT 2x6
75
C
80
80
82
79
BVTP 3x8
81
BVTP 3x8

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-3689-023-2	KEYBOARD ASSY, PRESET		68	*A-7060-064-A	RP-25B BOARD, COMPLETE	
52	3-689-085-01	COVER, SOCKET		69	*3-689-066-01	LID, SHIELD CASE, RP	
53	3-691-912-01	PLATE, ORNAMENTAL, REMOTE		70	*3-691-916-01	COVER, CAP	
54	*A-7060-298-A	SS-38I BOARD, COMPLETE (Australian Model)		71	*1-615-312-11	PW-10 BOARD	
55	3-691-971-01	KNOB, SHARPNESS		72	3-670-155-11	LEG	
56	*A-7060-315-A	TA-29D BOARD, COMPLETE		73	*1-615-309-11	RS-11 BOARD	
57	*3-682-047-01	HOLDER (A), PC BOARD		**74**	**⚠ 1-464-589-11**	**BOOSTER MIXER, RF MODULATOR (RFU-830)** (Australian Model)	
58	⚠ 1-463-661-21	TUNER,ET (BT-886D) (Australian Model)		75	*1-555-110-00	CABLE, PIN	
60	**⚠ 3-703-244-00**	**BUSHING (2104), CORD**		76	*4-303-475-00	HOLDER, P.C	
61	**⚠ 1-551-732-00**	**CORD, POWER** (Australian Model)		77	*A-7060-137-A	FT-4C BOARD, COMPLETE	
63	*1-616-181-13	PS-53 BOARD		78	*1-615-311-11	PD-10 BOARD	
64	**⚠ 1-448-170-11**	**TRANSFORMER, POWER T901**		79	3-689-027-01	KNOB, SLIDE	
65	*A-7070-122-A	PS-51B BOARD, COMPLETE		80	*3-682-613-00	CLIP (C), ANCHOR	
66	*A-7070-106-A	PS-52A BAORD, COMOLETE		81	*A-7060-138-A	MD-8B BOARD, COMPLETE	
67	*3-689-067-01	LID, REAR, SHIELD, RP		82	*A-7060-139-A	VI-9B BOARD, COMPLETE	
				83	*1-616-182-13	PS-68A BOARD	

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Ref.No	Par
	*A-7
C001	1-1
C002	1-1
C003	1-1
C004	1-1
C006	1-1
C007	1-1
C008	1-1
C009	1-1
C010	1-1
C011	1-1
C012	1-1
C013	1-1
C014	1-1
C015	1-1
C016	1-1
C017	1-1
C019	1-1
C020	1-1
C021	1-1
C022	1-1
C023	1-1
C024	1-1
C025	1-1
C026	1-1
C027	1-1
C028	1-1
C029	1-1
C030	1-1
C031	1-1
C032	1-1
C033	1-1
C034	1-1
C035	1-1
C038	1-1
C039	1-1
C040	1-1
C041	1-1
C042	1-1
C045	1-1
C046	1-1
C049	1-1
C050	1-1
C051	1-1
C052	1-1
C053	1-1
C054	1-1
C055	1-1
C056	1-1
C057	1-1

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Remark

(RFU-830)
alian Model)

6. ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

- MF : μF, PF : μμF

COILS

- MMH : mH, UH : μH

Ref.No	Part No.	Description			Remark
	*A-7060-139-A	VI-9B BOARD, COMPLETE (AEP/UK/Australian Model) **********************			
		CAPACITOR			
C001	1-161-025-00	CERAMIC	0.1MF	10%	25V
C002	1-102-824-00	CERAMIC	470PF	5%	50V
C003	1-101-006-21	CERAMIC	0.047MF		50V
C004	1-161-025-00	CERAMIC	0.1MF	10%	25V
C006	1-102-116-00	CERAMIC	680PF	10%	50V
C007	1-101-006-21	CERAMIC	0.047MF		50V
C008	1-123-356-00	ELECT	10MF	20%	16V
C009	1-123-356-00	ELECT	10MF	20%	16V
C010	1-123-356-00	ELECT	10MF	20%	16V
C011	1-101-006-21	CERAMIC	0.047MF		50V
C012	1-101-006-21	CERAMIC	0.047MF		50V
C013	1-123-380-00	ELECT	1MF	20%	50V
C014	1-123-309-00	ELECT	330MF	20%	6.3V
C015	1-123-330-00	ELECT	22MF	20%	16V
C016	1-123-369-00	ELECT	4.7MF	20%	25V
C017	1-123-369-00	ELECT	4.7MF	20%	25V
C019	1-123-356-00	ELECT	10MF	20%	16V
C020	1-101-006-21	CERAMIC	0.047MF		50V
C021	1-101-890-21	CERAMIC	75PF	5%	50V
C022	1-101-888-00	CERAMIC	68PF	5%	50V
C023	1-101-880-00	CERAMIC	47PF	5%	50V
C024	1-101-004-00	CERAMIC	0.01MF		50V
C025	1-101-006-21	CERAMIC	0.047MF		50V
C026	1-101-006-21	CERAMIC	0.047MF		50V
C027	1-123-608-00	ELECT	0.22MF	20%	50V
C028	1-123-356-00	ELECT	10MF	20%	16V
C029	1-123-356-00	ELECT	10MF	20%	16V
C030	1-102-820-00	CERAMIC	330PF	5%	50V
C031	1-102-973-00	CERAMIC	100PF	5%	50V
C032	1-102-820-00	CERAMIC	330PF	5%	50V
C033	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C034	1-102-958-00	CERAMIC	20PF	5%	50V
C035	1-102-959-00	CERAMIC	22PF	5%	50V
C038	1-101-006-21	CERAMIC	0.047MF		50V
C039	1-102-947-00	CERAMIC	10PF	5%	50V
C040	1-101-880-00	CERAMIC	47PF	5%	50V
C041	1-102-976-00	CERAMIC	180PF	5%	50V
C042	1-123-369-00	ELECT	4.7MF	20%	25V
C045	1-123-382-00	ELECT	3.3MF	20%	50V
C046	1-101-880-00	CERAMIC	47PF	5%	50V
C049	1-101-006-21	CERAMIC	0.047MF		50V
C050	1-102-980-00	CERAMIC	270PF	5%	50V
C051	1-101-005-00	CERAMIC	0.022MF		50V
C052	1-101-005-00	CERAMIC	0.022MF		50V
C053	1-101-006-21	CERAMIC	0.047MF		50V
C054	1-123-356-00	ELECT	10MF	20%	16V
C055	1-102-965-00	CERAMIC	39PF	5%	50V
C056	1-102-946-00	CERAMIC	9PF	0.5PF	50V
C057	1-102-963-00	CERAMIC	33PF	5%	50V
C058	1-101-006-21	CERAMIC	0.047MF		50V
C059	1-102-976-00	CERAMIC	180PF	5%	50V
C060	1-101-888-00	CERAMIC	68PF	5%	50V
C061	1-161-025-00	CERAMIC	0.1MF	10%	25V
C063	1-101-361-00	CERAMIC	150PF	5%	50V
C064	1-102-976-00	CERAMIC	180PF	5%	50V
C065	1-102-971-00	CERAMIC	82PF	5%	50V
C066	1-102-946-00	CERAMIC	9PF	0.5PF	50V
C067	1-102-820-00	CERAMIC	330PF	5%	50V
C068	1-102-960-00	CERAMIC	24PF	5%	50V
C073	1-101-006-21	CERAMIC	0.047MF		50V
C075	1-102-946-00	CERAMIC	9PF	0.5PF	50V
C076	1-102-947-00	CERAMIC	10PF	5%	50V
C077	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C080	1-102-961-00	CERAMIC	27PF	5%	50V
C100	1-101-006-21	CERAMIC	0.047MF		50V
C101	1-102-074-00	CERAMIC	0.001MF	10%	50V
C102	1-101-004-00	CERAMIC	0.01MF		50V
C103	1-101-884-00	CERAMIC	56PF	5%	50V
C104	1-102-959-00	CERAMIC	22PF	5%	50V
C105	1-123-381-00	ELECT	2.2MF	20%	50V
C106	1-123-369-00	ELECT	4.7MF	20%	25V
C107	1-101-884-00	CERAMIC	56PF	5%	50V
C109	1-101-006-21	CERAMIC	0.047MF		50V
C110	1-123-381-00	ELECT	2.2MF	20%	50V
C111	1-123-369-00	ELECT	4.7MF	20%	25V
C112	1-123-369-00	ELECT	4.7MF	20%	25V
C114	1-101-880-00	CERAMIC	47PF	5%	50V
C115	1-101-888-00	CERAMIC	68PF	5%	50V
C116	1-101-361-00	CERAMIC	150PF	5%	50V
C117	1-102-947-00	CERAMIC	10PF	5%	50V
C118	1-123-307-00	ELECT	100MF	20%	6.3V
C119	1-101-890-21	CERAMIC	75PF	5%	50V
C120	1-101-886-21	CERAMIC	62PF	5%	50V
C121	1-101-004-00	CERAMIC	0.01MF		50V
C122	1-101-884-00	CERAMIC	56PF	5%	50V
C123	1-101-004-00	CERAMIC	0.01MF		50V
C124	1-102-959-00	CERAMIC	22PF	5%	50V
C125	1-123-356-00	ELECT	10MF	20%	16V
C126	1-102-074-00	CERAMIC	0.001MF	10%	50V
C127	1-102-074-00	CERAMIC	0.001MF	10%	50V
C128	1-101-006-21	CERAMIC	0.047MF		50V
C129	1-123-308-00	ELECT	220MF	20%	6.3V
C130	1-101-006-21	CERAMIC	0.047MF		50V
C131	1-101-006-21	CERAMIC	0.047MF		50V
C132	1-123-330-00	ELECT	22MF	20%	16V
C133	1-101-004-00	CERAMIC	0.01MF		50V
C135	1-102-074-00	CERAMIC	0.001MF	10%	50V
C136	1-102-959-00	CERAMIC	22PF	5%	50V
C137	1-102-074-00	CERAMIC	0.001MF	10%	50V
C139	1-102-074-00	CERAMIC	0.001MF	10%	50V
C140	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C141	1-123-382-00	ELECT	3.3MF	20%	50V

Ref.No	Part No.	Description			Remark
C142	1-102-074-00	CERAMIC	0.001MF	10%	50V
C143	1-102-074-00	CERAMIC	0.001MF	10%	50V
C144	1-101-006-21	CERAMIC	0.047MF		50V
C145	1-123-356-00	ELECT	10MF	20%	16V
C146	1-102-815-00	CERAMIC	110PF	5%	50V
C147	1-101-004-00	CERAMIC	0.01MF		50V
C148	1-102-074-00	CERAMIC	0.001MF	10%	50V
C150	1-102-074-00	CERAMIC	0.001MF	10%	50V
C151	1-101-361-00	CERAMIC	150PF	5%	50V
C152	1-102-824-00	CERAMIC	470PF	5%	50V
C153	1-102-959-00	CERAMIC	22PF	5%	50V
C154	1-123-381-00	ELECT	2.2MF	20%	50V
C155	1-101-006-21	CERAMIC	0.047MF		50V
C156	1-101-888-00	CERAMIC	68PF	5%	50V
C157	1-101-006-21	CERAMIC	0.047MF		50V
C158	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C159	1-124-239-00	ELECT	6.8MF	20%	25V
C160	1-123-330-00	ELECT	22MF	20%	16V
C161	1-102-963-00	CERAMIC	33PF	5%	50V
C162	1-101-884-00	CERAMIC	56PF	5%	50V
C163	1-102-978-00	CERAMIC	220PF	5%	50V
C164	1-102-978-00	CERAMIC	220PF	5%	50V
C172	1-101-880-00	CERAMIC	47PF	5%	50V
C200	1-101-006-21	CERAMIC	0.047MF		50V
C201	1-101-006-21	CERAMIC	0.047MF		50V
C202	1-101-004-00	CERAMIC	0.01MF		50V
C203	1-101-004-00	CERAMIC	0.01MF		50V
C204	1-101-004-00	CERAMIC	0.01MF		50V
C206	1-101-004-00	CERAMIC	0.01MF		50V
C207	1-102-074-00	CERAMIC	0.001MF	10%	50V
C208	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C209	1-123-356-00	ELECT	10MF	20%	16V
C210	1-101-004-00	CERAMIC	0.01MF		50V
C211	1-102-820-00	CERAMIC	330PF	5%	50V
C212	1-101-004-00	CERAMIC	0.01MF		50V
C213	1-102-820-00	CERAMIC	330PF	5%	50V
C214	1-101-006-21	CERAMIC	0.047MF		50V
C215	1-102-820-00	CERAMIC	330PF	5%	50V
C216	1-102-947-00	CERAMIC	10PF	5%	50V
C217	1-102-966-00	CERAMIC	43PF	5%	50V
C218	1-102-074-00	CERAMIC	0.001MF	10%	50V
C219	1-102-820-00	CERAMIC	330PF	5%	50V
C220	1-102-820-00	CERAMIC	330PF	5%	50V
C221	1-101-004-00	CERAMIC	0.01MF		50V
C222	1-124-239-00	ELECT	6.8MF	20%	25V
C223	1-101-005-00	CERAMIC	0.022MF		50V
C224	1-123-369-00	ELECT	4.7MF	20%	25V
C225	1-123-356-00	ELECT	10MF	20%	16V
C227	1-101-004-00	CERAMIC	0.01MF		50V
C228	1-101-006-21	CERAMIC	0.047MF		50V
C229	1-123-381-00	ELECT	2.2MF	20%	50V
C230	1-123-608-00	ELECT	0.22MF	20%	50V
C231	1-101-005-00	CERAMIC	0.022MF		50V
C232	1-102-074-00	CERAMIC	0.001MF	10%	50V
C233	1-101-006-21	CERAMIC	0.047MF		50V
C234	1-123-381-00	ELECT	2.2MF	20%	50V
C235	1-102-118-00	CERAMIC	0.0012MF	10%	50V
C237	1-101-880-00	CERAMIC	47PF	5%	50V
C238	1-102-820-00	CERAMIC	330PF	5%	50V
C239	1-102-074-00	CERAMIC	0.001MF	10%	50V
C240	1-123-381-00	ELECT	2.2MF	20%	50V
C241	1-102-074-00	CERAMIC	0.001MF	10%	50V
C242	1-101-005-00	CERAMIC	0.022MF		50V
C243	1-102-962-21	CERAMIC	30PF	5%	50V
C244	1-102-976-00	CERAMIC	180PF	5%	50V
C245	1-102-118-00	CERAMIC	0.0012MF	10%	50V
C246	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C247	1-123-356-00	ELECT	10MF	20%	16V
C248	1-101-006-21	CERAMIC	0.047MF		50V
C249	1-102-820-00	CERAMIC	330PF	5%	50V
C250	1-123-607-00	ELECT	0.1MF	20%	50V
C251	1-123-609-00	ELECT	0.33MF	20%	50V
C252	1-102-963-00	CERAMIC	33PF	5%	50V
C253	1-102-973-00	CERAMIC	100PF	5%	50V
C254	1-101-880-00	CERAMIC	47PF	5%	50V
C255	1-101-880-00	CERAMIC	47PF	5%	50V
C256	1-123-356-00	ELECT	10MF	20%	16V
C257	1-161-025-00	CERAMIC	0.1MF	10%	25V
C258	1-101-888-00	CERAMIC	68PF	5%	50V
C259	1-102-951-00	CERAMIC	15PF	5%	50V
C260	1-102-976-00	CERAMIC	180PF	5%	50V
C261	1-102-945-00	CERAMIC	8PF	0.5PF	50V
C262	1-101-006-21	CERAMIC	0.047MF		50V
C264	1-101-006-21	CERAMIC	0.047MF		50V
C265	1-101-004-00	CERAMIC	0.01MF		50V
C266	1-101-006-21	CERAMIC	0.047MF		50V
C267	1-101-006-21	CERAMIC	0.047MF		50V
C269	1-101-004-00	CERAMIC	0.01MF		50V
C270	1-102-074-00	CERAMIC	0.001MF	10%	50V
C271	1-101-004-00	CERAMIC	0.01MF		50V
C300	1-123-356-00	ELECT	10MF	20%	16V
C302	1-123-356-00	ELECT	10MF	20%	16V
C304	1-123-381-00	ELECT	2.2MF	20%	50V
C400	1-101-004-00	CERAMIC	0.01MF		50V
C401	1-102-361-00	CERAMIC	0.0039MF	10%	50V
C501	1-101-361-00	CERAMIC	150PF	5%	50V
C502	1-101-004-00	CERAMIC	0.01MF		50V
		CONNECTOR			
CN002	*1-560-890-00	PIN, CONNECTOR 2P			
CN003	*1-560-895-00	PIN, CONNECTOR 7P			
CN004	*1-560-890-00	PIN, CONNECTOR 2P			
CN006	1-561-534-00	SOCKET 21P			
CN008	*1-560-893-00	PIN, CONNECTOR 5P			
CN011	*1-560-896-00	PIN, CONNECTOR 8P			
CN012	*1-560-893-00	PIN, CONNECTOR 5P			

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description	Remark
		COMPOSITION CIRCUIT BLOCK	
CP001	1-232-919-11	COMPOSITION CIRCUIT BLOCK	
CP003	1-232-914-11	COMPOSITION CIRCUIT BLOCK	
CP004	1-232-917-11	COMPOSITION CIRCUIT BLOCK	
CP005	1-232-918-11	COMPOSITION CIRCUIT BLOCK	
CP006	1-232-928-11	COMPOSITION CIRCUIT BLOCK	
CP007	1-232-935-11	COMPOSITION CIRCUIT BLOCK	
CP008	1-232-937-11	COMPOSITION CIRCUIT BLOCK	
CP011	1-232-922-11	COMPOSITION CIRCUIT BLOCK	
CP012	1-232-920-11	COMPOSITION CIRCUIT BLOCK	
CP013	1-232-938-11	COMPOSITION CIRCUIT BLOCK	
CP014	1-232-915-11	COMPOSITION CIRCUIT BLOCK	
CP015	1-232-912-11	COMPOSITION CIRCUIT BLOCK	
CP016	1-232-931-11	COMPOSITION CIRCUIT BLOCK	
CP017	1-232-913-11	COMPOSITION CIRCUIT BLOCK	
CP018	1-232-933-11	COMPOSITION CIRCUIT BLOCK	
CP019	1-232-916-11	COMPOSITION CIRCUIT BLOCK	
CP020	1-232-932-11	COMPOSITION CIRCUIT BLOCK	
CP021	1-232-936-11	COMPOSITION CIRCUIT BLOCK	
CP022	1-232-934-11	COMPOSITION CIRCUIT BLOCK	
CP100	1-232-927-11	COMPOSITION CIRCUIT BLOCK	
CP101	1-232-921-11	COMPOSITION CIRCUIT BLOCK	
		TRIMMER	
CV200	1-141-227-00	CAP, CERAMIC TRIMMER	
		DIODE	
D001	8-719-911-19	DIODE 1SS119	
D002	8-719-151-07	DIODE RD5.1E-B	
D003	8-719-815-87	DIODE 1S1587	
D004	8-719-815-87	DIODE 1S1587	
D005	8-719-815-87	DIODE 1S1587	
D006	8-719-815-87	DIODE 1S1587	
D008	8-719-911-19	DIODE 1SS119	
D009	8-719-911-19	DIODE 1SS119	
D010	8-719-815-87	DIODE 1S1587	
D102	8-719-000-12	DIODE MC931	
D103	8-719-000-06	DIODE MC921	
D104	8-719-815-87	DIODE 1S1587	
D105	8-719-815-87	DIODE 1S1587	
D106	8-719-000-12	DIODE MC931	
D107	8-719-000-12	DIODE MC931	
D200	⚠8-719-100-37	DIODE RD6.2EB1	
D203	8-719-000-06	DIODE MC921	
D204	8-719-000-06	DIODE MC921	
		DELAY LINE	
DL100	1-415-282-31	DELAY LINE	
DL101	1-415-386-21	DELAY LINE, 1H (13.3MHZ)	

Ref.No	Part No.	Description	Remark
		FILTER	
FL002	1-409-397-11	TRAP	
FL100	1-235-440-11	FILTER, BAND PASS (3.7MHZ)	
FL101	1-235-441-11	FILTER, BAND PASS (5.17MHZ)	
FL200	1-409-408-11	C.E TRAP	
FL201	1-409-396-11	REC C TRAP	
FL202	1-235-437-11	BPF, PB C	
		IC	
IC001	8-752-013-00	IC CX20130	
IC002	8-752-013-10	IC CX20131	
IC003	8-752-013-20	IC CX20132	
IC004	8-752-203-10	IC CX22031	
IC005	8-759-913-64	IC CX23064	
IC006	8-759-202-68	IC CX20147	
IC007	1-235-497-11	REC PILOT LPF	
		COIL	
L001	1-408-421-00	MICRO INDUCTOR 100UH	
L002	1-408-413-00	MICRO INDUCTOR 22UH	
L004	1-408-424-00	MICRO INDUCTOR 180UH	
L005	1-408-426-00	MICRO INDUCTOR 270UH	
L006	1-408-425-00	MICRO INDUCTOR 220UH	
L007	1-408-419-00	MICRO INDUCTOR 68UH	
L010	1-408-424-00	MICRO INDUCTOR 180UH	
L012	1-408-412-00	MICRO INDUCTOR 18UH	
L013	1-408-421-00	MICRO INDUCTOR 100UH	
L014	1-408-422-00	MICRO INDUCTOR 120UH	
L016	1-408-416-00	MICRO INDUCTOR 39UH	
L017	1-408-427-00	MICRO INDUCTOR 330UH	
L018	1-408-422-00	MICRO INDUCTOR 120UH	
L019	1-408-423-00	MICRO INDUCTOR 150UH	
L021	1-410-072-21	MICRO INDUCTOR 820UH	
L022	1-408-421-00	MICRO INDUCTOR 100UH	
L100	1-408-397-00	MICRO INDUCTOR 1UH	
L101	1-408-397-00	MICRO INDUCTOR 1UH	
L103	1-408-418-00	MICRO INDUCTOR 56UH	
L104	1-408-420-00	MICRO INDUCTOR 82UH	
L105	1-408-418-00	MICRO INDUCTOR 56UH	
L106	1-408-421-00	MICRO INDUCTOR 100UH	
L107	1-408-419-00	MICRO INDUCTOR 68UH	
L108	1-408-413-00	MICRO INDUCTOR 22UH	
L109	1-408-408-00	MICRO INDUCTOR 8.2UH	
L110	1-408-412-00	MICRO INDUCTOR 18UH	
L111	1-408-413-00	MICRO INDUCTOR 22UH	
L112	1-408-418-00	MICRO INDUCTOR 56UH	
L113	1-408-397-00	MICRO INDUCTOR 1UH	
L114	1-408-417-00	MICRO INDUCTOR 47UH	
L115	1-408-417-00	MICRO INDUCTOR 47UH	
L116	1-408-414-00	MICRO INDUCTOR 27UH	
L200	1-408-424-00	MICRO INDUCTOR 180UH	
L201	1-408-413-00	MICRO INDUCTOR 22UH	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

VI-9B

Ref.No	Part No.	Description	Remark
L203	1-408-422-00	MICRO INDUCTOR 120UH	
L204	1-410-072-21	MICRO INDUCTOR 820UH	
L205	1-408-422-00	MICRO INDUCTOR 120UH	
L206	1-408-425-00	MICRO INDUCTOR 220UH	
L207	1-408-420-00	MICRO INDUCTOR 82UH	
L208	1-408-407-00	MICRO INDUCTOR 6.8UH	
L209	1-408-427-00	MICRO INDUCTOR 330UH	
L400	1-407-177-XX	MICRO INDUCTOR 470UH	

VARIABLE COIL

Ref.No	Part No.	Description	Remark
LV100	1-408-512-00	COIL (VARIABLE)	

IC LINK

Ref.No	Part No.	Description	Remark
PS200⚠	1-532-679-00	LINK, IC	

TRANSISTOR

Ref.No	Part No.	Description	Remark
Q002	8-729-900-36	TRANSISTOR DTC124ES	
Q003	8-729-117-54	TRANSISTOR 2SA1175	
Q004	8-729-117-54	TRANSISTOR 2SA1175	
Q007	8-729-117-54	TRANSISTOR 2SA1175	
Q008	8-729-384-48	TRANSISTOR 2SA844	
Q009	8-729-245-83	TRANSISTOR 2SC2458	
Q010	8-729-245-83	TRANSISTOR 2SC2458	
Q011	8-729-900-36	TRANSISTOR DTC124ES	
Q012	8-729-117-54	TRANSISTOR 2SA1175	
Q013	8-729-117-54	TRANSISTOR 2SA1175	
Q014	8-729-900-36	TRANSISTOR DTC124ES	
Q015	8-729-900-36	TRANSISTOR DTC124ES	
Q016	8-729-245-83	TRANSISTOR 2SC2458	
Q017	8-729-900-36	TRANSISTOR DTC124ES	
Q021	8-729-900-89	TRANSISTOR DTC144ES	
Q100	8-729-900-36	TRANSISTOR DTC124ES	
Q101	8-729-900-36	TRANSISTOR DTC124ES	
Q102	8-729-117-54	TRANSISTOR 2SA1175	
Q103	8-729-245-83	TRANSISTOR 2SC2458	
Q104	8-729-245-83	TRANSISTOR 2SC2458	
Q105	8-729-245-83	TRANSISTOR 2SC2458	
Q106	8-729-245-83	TRANSISTOR 2SC2458	
Q107	8-729-900-36	TRANSISTOR DTC124ES	
Q108	8-729-900-36	TRANSISTOR DTC124ES	
Q109	8-729-900-36	TRANSISTOR DTC124ES	
Q110	8-729-245-83	TRANSISTOR 2SC2458	
Q200	8-729-245-83	TRANSISTOR 2SC2458	
Q201	8-729-900-36	TRANSISTOR DTC124ES	
Q203	8-729-603-50	TRANSISTOR 2SC403SP	
Q204	8-729-603-50	TRANSISTOR 2SC403SP	
Q205	8-729-900-36	TRANSISTOR DTC124ES	
Q206	8-729-117-54	TRANSISTOR 2SA1175	
Q207	8-729-900-36	TRANSISTOR DTC124ES	
Q208	8-729-245-83	TRANSISTOR 2SC2458	
Q209	8-729-245-83	TRANSISTOR 2SC2458	
Q212	8-729-245-83	TRANSISTOR 2SC2458	
Q213	8-729-900-36	TRANSISTOR DTC124ES	
Q214	8-729-900-36	TRANSISTOR DTC124ES	
Q215	8-729-245-83	TRANSISTOR 2SC2458	
Q216	8-729-245-83	TRANSISTOR 2SC2458	
Q217	8-729-245-83	TRANSISTOR 2SC2458	
Q218	8-729-900-61	TRANSISTOR DTA114ES	
Q220	8-729-245-83	TRANSISTOR 2SC2458	
Q258	8-729-900-36	TRANSISTOR DTC124ES	
Q300	8-729-900-36	TRANSISTOR DTC124ES	

RESISTOR

Ref.No	Part No.	Description				Remark
R001	1-247-881-00	CARBON	120K	5%	1/6W	
R002	1-247-895-00	CARBON	470K	5%	1/6W	
R003	1-247-857-00	CARBON	12K	5%	1/6W	
R004	1-247-859-00	CARBON	15K	5%	1/6W	
R005	1-249-437-11	CARBON	47K	5%	1/6W	
R006	1-249-437-11	CARBON	47K	5%	1/6W	
R007	1-247-831-00	CARBON	1K	5%	1/6W	
R008	1-247-891-00	CARBON	330K	5%	1/6W	
R010	1-247-831-00	CARBON	1K	5%	1/6W	
R011	1-247-879-00	CARBON	100K	5%	1/6W	
R012	1-247-875-00	CARBON	68K	5%	1/6W	
R013	1-247-831-00	CARBON	1K	5%	1/6W	
R014	1-249-437-11	CARBON	47K	5%	1/6W	
R015	1-249-437-11	CARBON	47K	5%	1/6W	
R016	1-249-437-11	CARBON	47K	5%	1/6W	
R017	1-247-873-00	CARBON	56K	5%	1/6W	
R018	1-249-425-11	CARBON	4.7K	5%	1/6W	
R019	1-249-425-11	CARBON	4.7K	5%	1/6W	
R020	1-247-831-00	CARBON	1K	5%	1/6W	
R022	1-247-863-00	CARBON	22K	5%	1/6W	
R023	1-247-823-00	CARBON	470	5%	1/6W	
R024	1-249-437-11	CARBON	47K	5%	1/6W	
R025	1-249-437-11	CARBON	47K	5%	1/6W	
R026	1-249-437-11	CARBON	47K	5%	1/6W	
R027	1-249-437-11	CARBON	47K	5%	1/6W	
R029	1-247-839-00	CARBON	2.2K	5%	1/6W	
R030	1-247-841-00	CARBON	2.7K	5%	1/6W	
R031	1-247-839-00	CARBON	2.2K	5%	1/6W	
R032	1-247-845-00	CARBON	3.9K	5%	1/6W	
R033	1-247-883-00	CARBON	150K	5%	1/6W	
R037	1-247-853-00	CARBON	8.2K	5%	1/6W	
R040	1-247-823-00	CARBON	470	5%	1/6W	
R042	1-247-831-00	CARBON	1K	5%	1/6W	
R043	1-247-863-00	CARBON	22K	5%	1/6W	
R045	1-247-831-00	CARBON	1K	5%	1/6W	
R050	1-247-839-00	CARBON	2.2K	5%	1/6W	
R051	1-247-839-00	CARBON	2.2K	5%	1/6W	
R052	1-247-841-00	CARBON	2.7K	5%	1/6W	
R054	1-247-837-00	CARBON	1.8K	5%	1/6W	
R055	1-247-804-00	CARBON	75	5%	1/6W	
R056	1-247-797-00	CARBON	39	5%	1/6W	
R057	1-247-797-00	CARBON	39	5%	1/6W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description				Remark
R058	1-247-825-00	CARBON	560	5%	1/6W	
R059	1-247-845-00	CARBON	3.9K	5%	1/6W	
R060	1-247-821-00	CARBON	390	5%	1/6W	
R062	1-247-825-00	CARBON	560	5%	1/6W	
R063	1-247-817-00	CARBON	270	5%	1/6W	
R064	1-247-863-00	CARBON	22K	5%	1/6W	
R065	1-247-823-00	CARBON	470	5%	1/6W	
R066	1-247-833-00	CARBON	1.2K	5%	1/6W	
R067	1-247-805-00	CARBON	82	5%	1/6W	
R068	1-247-839-00	CARBON	2.2K	5%	1/6W	
R069	1-247-827-00	CARBON	680	5%	1/6W	
R070	1-247-883-00	CARBON	150K	5%	1/6W	
R072	1-247-815-00	CARBON	220	5%	1/6W	
R073	1-249-425-11	CARBON	4.7K	5%	1/6W	
R074	1-249-425-11	CARBON	4.7K	5%	1/6W	
R075	1-247-843-00	CARBON	3.3K	5%	1/6W	
R077	1-247-825-00	CARBON	560	5%	1/6W	
R079	1-249-419-11	CARBON	1.5K	5%	1/6W	
R080	1-247-863-00	CARBON	22K	5%	1/6W	
R083	1-247-817-00	CARBON	270	5%	1/6W	
R084	1-247-815-00	CARBON	220	5%	1/6W	
R101	1-247-809-00	CARBON	120	5%	1/6W	
R102	1-247-857-00	CARBON	12K	5%	1/6W	
R103	1-247-863-00	CARBON	22K	5%	1/6W	
R104	1-247-863-00	CARBON	22K	5%	1/6W	
R105	1-247-895-00	CARBON	470K	5%	1/6W	
R106	1-247-903-00	CARBON	1M	5%	1/6W	
R107	1-247-807-00	CARBON	100	5%	1/6W	
R108	1-249-429-11	CARBON	10K	5%	1/6W	
R110	1-247-869-00	CARBON	39K	5%	1/6W	
R111	1-247-859-00	CARBON	15K	5%	1/6W	
R113	1-247-833-00	CARBON	1.2K	5%	1/6W	
R114	1-249-425-11	CARBON	4.7K	5%	1/6W	
R122	1-247-829-00	CARBON	820	5%	1/6W	
R125	1-247-833-00	CARBON	1.2K	5%	1/6W	
R131	1-247-831-00	CARBON	1K	5%	1/6W	
R132	1-247-823-00	CARBON	470	5%	1/6W	
R133	1-247-831-00	CARBON	1K	5%	1/6W	
R134	1-247-821-00	CARBON	390	5%	1/6W	
R135	1-247-821-00	CARBON	390	5%	1/6W	
R136	1-247-809-00	CARBON	120	5%	1/6W	
R137	1-247-817-00	CARBON	270	5%	1/6W	
R138	1-249-437-11	CARBON	47K	5%	1/6W	
R139	1-249-437-11	CARBON	47K	5%	1/6W	
R140	1-247-831-00	CARBON	1K	5%	1/6W	
R141	1-247-849-00	CARBON	5.6K	5%	1/6W	
R142	1-247-859-00	CARBON	15K	5%	1/6W	
R143	1-247-807-00	CARBON	100	5%	1/6W	
R144	1-247-791-00	CARBON	22	5%	1/6W	
R145	1-247-839-00	CARBON	2.2K	5%	1/6W	
R146	1-247-831-00	CARBON	1K	5%	1/6W	
R147	1-247-831-00	CARBON	1K	5%	1/6W	
R151	1-249-419-11	CARBON	1.5K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R155	1-249-437-11	CARBON	47K	5%	1/6W	
R156	1-247-875-00	CARBON	68K	5%	1/6W	
R159	1-247-825-00	CARBON	560	5%	1/6W	
R161	1-247-823-00	CARBON	470	5%	1/6W	
R164	1-247-827-00	CARBON	680	5%	1/6W	
R165	1-249-425-11	CARBON	4.7K	5%	1/6W	
R168	1-249-425-11	CARBON	4.7K	5%	1/6W	
R173	1-249-419-11	CARBON	1.5K	5%	1/6W	
R174	1-247-849-00	CARBON	5.6K	5%	1/6W	
R175	1-247-827-00	CARBON	680	5%	1/6W	
R176	1-247-827-00	CARBON	680	5%	1/6W	
R178	1-247-831-00	CARBON	1K	5%	1/6W	
R179	1-247-895-00	CARBON	470K	5%	1/6W	
R180	1-249-434-11	CARBON	27K	5%	1/6W	
R181	1-247-831-00	CARBON	1K	5%	1/6W	
R182	1-249-429-11	CARBON	10K	5%	1/6W	
R183	1-247-861-00	CARBON	18K	5%	1/6W	
R184	1-247-879-00	CARBON	100K	5%	1/6W	
R185	1-247-841-00	CARBON	2.7K	5%	1/6W	
R186	1-247-859-00	CARBON	15K	5%	1/6W	
R187	1-247-867-00	CARBON	33K	5%	1/6W	
R190	1-249-432-11	CARBON	18K	5%	1/6W	
R200	1-247-867-00	CARBON	33K	5%	1/6W	
R201	1-247-823-00	CARBON	470	5%	1/6W	
R203	1-247-841-00	CARBON	2.7K	5%	1/6W	
R209	1-247-831-00	CARBON	1K	5%	1/6W	
R218	1-247-807-00	CARBON	100	5%	1/6W	
R219	1-247-839-00	CARBON	2.2K	5%	1/6W	
R220	1-247-831-00	CARBON	1K	5%	1/6W	
R221	1-247-831-00	CARBON	1K	5%	1/6W	
R222	1-247-859-00	CARBON	15K	5%	1/6W	
R223	1-247-827-00	CARBON	680	5%	1/6W	
R224	1-247-859-00	CARBON	15K	5%	1/6W	
R225	1-249-425-11	CARBON	4.7K	5%	1/6W	
R226	1-247-863-00	CARBON	22K	5%	1/6W	
R227	1-247-839-00	CARBON	2.2K	5%	1/6W	
R232	1-247-863-00	CARBON	22K	5%	1/6W	
R233	1-247-879-00	CARBON	100K	5%	1/6W	
R234	1-247-851-00	CARBON	6.8K	5%	1/6W	
R235	1-247-839-00	CARBON	2.2K	5%	1/6W	
R236	1-249-437-11	CARBON	47K	5%	1/6W	
R237	1-249-437-11	CARBON	47K	5%	1/6W	
R238	1-249-425-11	CARBON	4.7K	5%	1/6W	
R239	1-247-831-00	CARBON	1K	5%	1/6W	
R240	1-249-425-11	CARBON	4.7K	5%	1/6W	
R248	1-247-885-00	CARBON	180K	5%	1/6W	
R251	1-249-429-11	CARBON	10K	5%	1/6W	
R253	1-249-425-11	CARBON	4.7K	5%	1/6W	
R254	1-249-437-11	CARBON	47K	5%	1/6W	
R261	1-247-831-00	CARBON	1K	5%	1/6W	
R262	1-247-841-00	CARBON	2.7K	5%	1/6W	
R264	1-247-831-00	CARBON	1K	5%	1/6W	
R265	1-247-823-00	CARBON	470	5%	1/6W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description				Remark
R266	1-247-807-00	CARBON	100	5%	1/6W	
R267	1-247-827-00	CARBON	680	5%	1/6W	
R268	1-247-867-00	CARBON	33K	5%	1/6W	
R269	1-247-863-00	CARBON	22K	5%	1/6W	
R270	1-247-831-00	CARBON	1K	5%	1/6W	
R271	1-249-425-11	CARBON	4.7K	5%	1/6W	
R272	1-247-849-00	CARBON	5.6K	5%	1/6W	
R273	1-247-867-00	CARBON	33K	5%	1/6W	
R277	1-249-437-11	CARBON	47K	5%	1/6W	
R280	1-247-829-00	CARBON	820	5%	1/6W	
R282	1-247-863-00	CARBON	22K	5%	1/6W	
R284	1-247-831-00	CARBON	1K	5%	1/6W	
R285	1-247-841-00	CARBON	2.7K	5%	1/6W	
R286	1-247-815-00	CARBON	220	5%	1/6W	
R287	1-247-831-00	CARBON	1K	5%	1/6W	
R288	1-247-831-00	CARBON	1K	5%	1/6W	
R289	1-247-831-00	CARBON	1K	5%	1/6W	
R290	1-247-840-00	CARBON	2.4K	5%	1/6W	
R292	1-249-425-11	CARBON	4.7K	5%	1/6W	
R293	1-247-831-00	CARBON	1K	5%	1/6W	
R306	1-247-827-00	CARBON	680	5%	1/6W	
R307	1-247-827-00	CARBON	680	5%	1/6W	
R309	1-247-783-00	CARBON	10	5%	1/6W	
R310	1-247-831-00	CARBON	1K	5%	1/6W	
R311	1-247-831-00	CARBON	1K	5%	1/6W	
R312	1-247-873-00	CARBON	56K	5%	1/6W	
R400	1-247-831-00	CARBON	1K	5%	1/6W	
R401	1-249-419-11	CARBON	1.5K	5%	1/6W	
R402	1-249-429-11	CARBON	10K	5%	1/6W	
R403	1-247-803-00	CARBON	68	5%	1/6W	
R501	1-247-831-00	CARBON	1K	5%	1/6W	
R900	1-249-419-11	CARBON	1.5K	5%	1/6W	

VARIABLE RESISTOR

Ref.No	Part No.	Description	Remark
RV001	1-228-995-00	RES, ADJ, CARBON 22K	
RV002	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV003	1-228-995-00	RES, ADJ, CARBON 22K	
RV004	1-228-994-00	RES, ADJ, CARBON 10K	
RV005	1-228-995-00	RES, ADJ, CARBON 22K	
RV006	1-228-995-00	RES, ADJ, CARBON 22K	
RV100	1-228-995-00	RES, ADJ, CARBON 22K	
RV101	1-228-750-00	RES, ADJ, CARBON 47K	
RV102	1-228-998-00	RES, ADJ, CARBON 220K	
RV103	1-228-997-00	RES, ADJ, CARBON 100K	
RV201	1-228-990-00	RES, ADJ, CARBON 1K	
RV202	1-228-995-00	RES, ADJ, CARBON 22K	
RV203	1-228-989-00	RES, ADJ, CARBON 470	
RV204	1-228-994-00	RES, ADJ, CARBON 10K	
RV205	1-228-994-00	RES, ADJ, CARBON 10K	
RV206	1-228-995-00	RES, ADJ, CARBON 22K	

CRYSTAL

Ref.No	Part No.	Description	Remark
X100	1-567-442-11	VIBRATOR, CRYSTAL	
X200	1-567-146-11	VIBRATOR, CRYSTAL	
X201	1-567-345-11	VIBRATOR, CRYSTAL	

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*1-617-208-11 SK-9 BOARD [AEP/UK/Australian Model]
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CAPACITOR

Ref.No	Part No.	Description			
C601	1-161-025-00	CERAMIC	0.1MF	10%	25V
C602	1-161-023-00	CERAMIC	0.068MF	10%	25V

TRANSISTOR

Ref.No	Part No.	Description
Q111	8-729-900-36	TRANSISTOR DTC124ES
Q401	8-729-900-89	TRANSISTOR DTC144ES
Q402	8-729-178-54	TRANSISTOR 2SC2785

RESISTOR

Ref.No	Part No.	Description			
R600	1-247-831-00	CARBON	1K	5%	1/6W
R601	1-249-425-11	CARBON	4.7K	5%	1/6W

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*A-7060-315-A TA-29D BOARD, COMPLETE [Australian Model]
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⚠1-463-661-21 TUNER, ET (BT-886D)
*4-336-029-00 PLATE, SHIELD

CAPACITOR

Ref.No	Part No.	Description			
C001	1-102-531-00	CERAMIC	150PF	5%	50V
C002	1-102-530-00	CERAMIC	120PF	5%	50V
C003	1-102-518-00	CERAMIC	33PF	5%	50V
C004	1-102-851-00	CERAMIC	15PF	5%	50V
C005	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C006	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C007	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C008	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C009	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C010	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C011	1-123-379-00	ELECT	0.47MF	20%	50V
C012	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C013	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C014	1-123-318-00	ELECT	33MF	20%	16V
C015	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C016	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C017	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C018	1-102-529-00	CERAMIC	100PF	5%	50V
C019	1-102-504-00	CERAMIC	4PF	0.25PF	50V
C020	1-102-518-00	CERAMIC	33PF	5%	50V
C021	1-102-504-00	CERAMIC	4PF	0.25PF	50V
C022	1-102-529-00	CERAMIC	100PF	5%	50V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description			Remark
C023	1-102-518-00	CERAMIC	33PF	5%	50V
C026	1-102-110-00	CERAMIC	220PF	10%	50V
C027	1-123-369-00	ELECT	4.7MF	20%	25V
C028	1-102-959-00	CERAMIC	22PF	5%	50V
C029	1-102-959-00	CERAMIC	22PF	5%	50V
C030	1-101-004-00	CERAMIC	0.01MF		50V
C031	1-101-004-00	CERAMIC	0.01MF		50V
C032	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C033	1-102-959-00	CERAMIC	22PF	5%	50V
C034	1-101-004-00	CERAMIC	0.01MF		50V
C035	1-123-318-00	ELECT	33MF	20%	16V
C036	1-108-807-00	MYLAR	0.018MF	5%	50V
C037	1-123-356-00	ELECT	10MF	20%	16V
C038	1-108-599-00	MYLAR	0.068MF	5%	50V
C039	1-108-599-00	MYLAR	0.068MF	5%	50V
C040	1-102-963-00	CERAMIC	33PF	5%	50V
C041	1-123-318-00	ELECT	33MF	20%	16V
C042	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C043	1-123-369-00	ELECT	4.7MF	20%	25V
C044	1-123-380-00	ELECT	1MF	20%	50V
C045	1-123-380-00	ELECT	1MF	20%	50V
C046	1-123-380-00	ELECT	1MF	20%	50V
C047	1-123-318-00	ELECT	33MF	20%	16V
C048	1-123-330-00	ELECT	22MF	20%	16V
C050	1-102-106-00	CERAMIC	100PF	10%	50V
C051	1-108-603-00	MYLAR	0.1MF	5%	50V
C052	1-123-356-00	ELECT	10MF	20%	50V
C053	1-123-332-00	ELECT	47MF	20%	16V
C057	1-102-074-00	CERAMIC	0.001MF	10%	50V
C058	1-123-356-00	ELECT	10MF	20%	16V
C059	1-123-356-00	ELECT	10MF	20%	16V
C060	1-101-004-00	CERAMIC	0.01MF		50V
C061	1-123-318-00	ELECT	33MF	20%	16V
C062	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C063	1-123-356-00	ELECT	10MF	20%	16V
C064	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C066	1-108-603-00	MYLAR	0.1MF	5%	50V
C067	1-123-307-00	ELECT	100MF	20%	10V
C068	1-123-330-00	ELECT	22MF	20%	16V
C069	1-161-025-00	CERAMIC	0.1MF	10%	25V
C070	1-101-004-00	CERAMIC	0.01MF		50V
C071	1-102-113-00	CERAMIC	390PF	10%	50V
C072	1-102-114-00	CERAMIC	470PF	10%	50V
C073	1-106-172-00	MYLAR	0.001MF	5%	50V
C074	1-123-379-00	ELECT	0.47MF	20%	50V
C075	1-123-356-00	ELECT	10MF	20%	16V
C076	1-102-112-00	CERAMIC	330PF	10%	50V
C077	1-102-852-00	CERAMIC	47PF	5%	50V
C501	1-123-307-00	ELECT	100MF	20%	6.3V
C502	1-123-330-00	ELECT	22MF	20%	16V
C503	1-123-356-00	ELECT	10MF	20%	16V
C504	1-123-380-00	ELECT	1MF	20%	50V
C505	1-123-356-00	ELECT	10MF	20%	16V
C506	1-130-482-00	MYLAR	0.0082MF	5%	50V
C507	1-102-116-00	CERAMIC	680PF	10%	50V
C508	1-136-160-00	MYLAR	0.039MF	5%	50V
C509	1-102-978-00	CERAMIC	220PF	5%	50V
C510	1-102-942-00	CERAMIC	5PF	1PF	50V
C511	1-130-479-00	MYLAR	0.0047MF	5%	50V
C513	1-102-824-00	CERAMIC	470PF	5%	50V
C515	1-123-369-00	ELECT	4.7MF	20%	25V
C516	1-123-307-00	ELECT	100MF	20%	6.3V
C517	1-123-381-00	ELECT	2.2MF	20%	50V
C518	1-161-013-00	CERAMIC	0.01MF	10%	25V
C519	1-130-475-00	MYLAR	0.0022MF	5%	50V
C520	1-130-478-00	MYLAR	0.0039MF	5%	50V
C521	1-102-978-00	CERAMIC	220PF	5%	50V
C522	1-130-473-00	MYLAR	0.0015MF	5%	50V
C523	1-123-379-00	ELECT	0.47MF	20%	50V
C524	1-102-116-00	CERAMIC	680PF	10%	50V
C525	1-161-013-00	CERAMIC	0.01MF	10%	25V
C526	1-161-013-00	CERAMIC	0.01MF	10%	25V
C527	1-161-013-00	CERAMIC	0.01MF	10%	25V
C528	1-130-475-00	MYLAR	0.0022MF	5%	50V
C529	1-101-880-00	CERAMIC	47PF	5%	50V
C530	1-123-380-00	ELECT	1MF	20%	50V
C531	1-123-307-00	ELECT	100MF	20%	6.3V
C532	1-161-013-00	CERAMIC	0.01MF	10%	25V
C533	1-161-013-00	CERAMIC	0.01MF	10%	25V
C534	1-161-013-00	CERAMIC	0.01MF	10%	25V
C535	1-161-013-00	CERAMIC	0.01MF	10%	25V
C537	1-123-380-00	ELECT	1MF	20%	50V
C540	1-123-356-00	ELECT	10MF	20%	16V
C541	1-123-369-00	ELECT	4.7MF	20%	25V
C542	1-130-473-00	MYLAR	0.0015MF	5%	50V
C550	1-161-059-00	CERAMIC	0.047MF	10%	25V
C599	1-123-307-00	ELECT	100MF	20%	6.3V
C701	1-123-306-00	ELECT	47MF	20%	6.3V

DISCRIMINATOR

Ref.No	Part No.	Description
CD001	1-404-380-00	DISCRIMINATOR, CERAMIC 5.5MHZ

FILTER

Ref.No	Part No.	Description
CF001	1-527-263-00	CERAMIC FILTER (5.5MHZ)

CONNECTOR

Ref.No	Part No.	Description
CN001	*1-560-890-00	PIN, CONNECTOR 2P
CN006	*1-560-890-00	PIN, CONNECTOR 2P
CN007	*1-560-893-00	PIN, CONNECTOR 5P
CN501	*1-560-893-00	PIN, CONNECTOR 5P
CN502	*1-560-894-00	PIN, CONNECTOR 6P

COMPOSITION CIRCUIT BLOCK

Ref.No	Part No.	Description
CP501	1-232-788-11	COMPOSITION CIRCUIT BLOCK

When indicating parts by reference number, please include the board name.

TA-29D

Ref.No	Part No.	Description	Remark
		TRIMMER	
CT001	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
		DIODE	
D001	8-719-911-19	DIODE 1SS119	
D003	8-719-911-19	DIODE 1SS119	
D005	8-719-911-19	DIODE 1SS119	
D006	8-719-911-19	DIODE 1SS119	
D007	8-719-911-19	DIODE 1SS119	
D008	8-719-911-19	DIODE 1SS119	
D502	8-719-911-19	DIODE 1SS119	
D701	8-719-812-41	DIODE TLR124	
		FILTER	
FL501	1-235-484-11	FILTER, BAND PASS (1.5MHZ)	
		IC	
IC001	8-759-602-16	IC M54572L	
IC002	8-759-276-07	IC TA7607AP	
IC003	8-759-103-70	IC UPC1391HA	
IC004	8-759-157-40	IC UPC574J	
IC005	8-759-729-03	IC NJM2903D	
IC006	8-759-040-46	IC MC14046BCP	
IC501	8-752-013-71	IC CX20137A	
		COIL	
L001	1-404-476-00	COIL, IF	
L002	1-404-476-00	COIL, IF	
L003	1-408-591-00	MICRO INDUCTOR 1UH	
L004	1-408-406-00	MICRO INDUCTOR 5.6UH	
L005	1-404-428-00	VIFT	
L006	1-408-406-00	MICRO INDUCTOR 5.6UH	
L007	1-404-427-00	VIFT	
L008	1-404-427-00	VIFT	
L009	1-408-599-00	MICRO INDUCTOR 4.7UH	
L010	1-408-429-00	MICRO INDUCTOR 470UH	
L011	1-408-409-00	MICRO INDUCTOR 10UH	
L012	1-408-412-00	MICRO INDUCTOR 18UH	
L013	1-408-413-00	MICRO INDUCTOR 22UH	
L501	1-408-425-00	MICRO INDUCTOR 220UH	
L502	1-408-425-00	MICRO INDUCTOR 220UH	
		TRANSISTOR	
Q001	8-729-105-47	TRANSISTOR 2SC2026	
Q002	8-729-245-83	TRANSISTOR 2SC2458	
Q004	8-729-245-83	TRANSISTOR 2SC2458	
Q005	8-729-245-83	TRANSISTOR 2SC2458	
Q006	8-729-603-30	TRANSISTOR 2SC403SP	
Q007	8-729-245-83	TRANSISTOR 2SC2458	
Q008	8-729-900-89	TRANSISTOR DTC144ES	
Q009	8-729-245-83	TRANSISTOR 2SC2458	
Q010	8-729-117-52	TRANSISTOR 2SA1175	
Q011	8-729-245-83	TRANSISTOR 2SC2458	
Q012	8-729-178-54	TRANSISTOR 2SC2785	
Q016	8-729-113-32	TRANSISTOR 2SB733	
Q017	8-729-900-36	TRANSISTOR DTC124ES	
Q018	8-729-245-83	TRANSISTOR 2SC2458	
Q501	8-729-900-89	TRANSISTOR DTC144ES	
Q502	8-729-178-54	TRANSISTOR 2SC2785	
Q703	8-729-178-54	TRANSISTOR 2SC2785	
Q704	8-729-178-54	TRANSISTOR 2SC2785	
		RESISTOR	
R001	1-249-429-11	CARBON 10K 5% 1/6W	
R002	1-247-863-00	CARBON 22K 5% 1/6W	
R003	⚠1-247-847-00	CARBON 4.7K 5% 1/6W	
R004	1-247-815-00	CARBON 220 5% 1/6W	
R005	1-247-825-00	CARBON 560 5% 1/6W	
R006	⚠1-247-847-00	CARBON 4.7K 5% 1/6W	
R007	1-247-823-00	CARBON 470 5% 1/6W	
R008	1-247-837-00	CARBON 1.8K 5% 1/6W	
R009	1-247-901-00	CARBON 820K 5% 1/6W	
R010	1-247-833-00	CARBON 1.2K 5% 1/6W	
R011	1-247-811-00	CARBON 150 5% 1/6W	
R012	⚠1-247-807-00	CARBON 100 5% 1/6W	
R014	1-247-829-00	CARBON 820 5% 1/6W	
R015	1-247-875-00	CARBON 68K 5% 1/6W	
R016	⚠1-247-831-00	CARBON 1K 5% 1/6W	
R017	⚠1-247-831-00	CARBON 1K 5% 1/6W	
R019	⚠1-247-831-00	CARBON 1K 5% 1/6W	
R020	1-247-891-00	CARBON 330K 5% 1/6W	
R021	⚠1-247-831-00	CARBON 1K 5% 1/6W	
R022	1-247-817-00	CARBON 270 5% 1/6W	
R023	1-247-821-00	CARBON 390 5% 1/6W	
R024	⚠1-247-847-00	CARBON 4.7K 5% 1/6W	
R025	⚠1-247-831-00	CARBON 1K 5% 1/6W	
R026	1-247-879-00	CARBON 100K 5% 1/6W	
R027	1-247-867-00	CARBON 33K 5% 1/6W	
R028	1-247-843-00	CARBON 3.3K 5% 1/6W	
R030	1-247-891-00	CARBON 330K 5% 1/6W	
R031	1-247-839-00	CARBON 2.2K 5% 1/6W	
R032	1-247-877-00	CARBON 82K 5% 1/6W	
R033	1-247-879-00	CARBON 100K 5% 1/6W	
R034	1-247-879-00	CARBON 100K 5% 1/6W	
R035	1-249-429-11	CARBON 10K 5% 1/6W	
R036	1-247-863-00	CARBON 22K 5% 1/6W	
R037	1-249-429-11	CARBON 10K 5% 1/6W	
R038	1-247-839-00	CARBON 2.2K 5% 1/6W	
R039	⚠1-247-719-11	CARBON 3.3K 5% 1/4W	F
R040	1-247-863-00	CARBON 22K 5% 1/6W	
R041	1-247-863-00	CARBON 22K 5% 1/6W	
R042	1-247-863-00	CARBON 22K 5% 1/6W	
R043	1-247-863-00	CARBON 22K 5% 1/6W	
R044	1-249-434-11	CARBON 27K 5% 1/6W	
R045	1-247-857-00	CARBON 12K 5% 1/6W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description				Remark
R046	1-247-859-00	CARBON	15K	5%	1/6W	
R047	1-247-863-00	CARBON	22K	5%	1/6W	
R048	1-249-429-11	CARBON	10K	5%	1/6W	
R049	1-247-849-00	CARBON	5.6K	5%	1/6W	
R050	⚠1-247-831-00	CARBON	1K	5%	1/6W	
R051	1-247-903-00	CARBON	1M	5%	1/6W	
R052	1-247-863-00	CARBON	22K	5%	1/6W	
R053	1-247-883-00	CARBON	150K	5%	1/6W	
R054	1-247-887-00	CARBON	220K	5%	1/6W	
R055	1-249-429-11	CARBON	10K	5%	1/6W	
R056	1-247-863-00	CARBON	22K	5%	1/6W	
R057	1-247-839-00	CARBON	2.2K	5%	1/6W	
R058	1-249-429-11	CARBON	10K	5%	1/6W	
R059	1-247-899-00	CARBON	680K	5%	1/6W	
R065	1-247-867-00	CARBON	33K	5%	1/6W	
R066	1-247-849-00	CARBON	5.6K	5%	1/6W	
R067	1-247-819-00	CARBON	330	5%	1/6W	
R068	1-247-885-00	CARBON	180K	5%	1/6W	
R069	1-249-437-11	CARBON	47K	5%	1/6W	
R070	1-249-429-11	CARBON	10K	5%	1/6W	
R071	⚠1-247-847-00	CARBON	4.7K	5%	1/6W	
R072	⚠1-247-831-00	CARBON	1K	5%	1/6W	
R076	⚠1-247-831-00	CARBON	1K	5%	1/6W	
R077	1-249-419-11	CARBON	1.5K	5%	1/6W	
R078	1-247-831-00	CARBON	1K	5%	1/6W	
R079	1-247-841-00	CARBON	2.7K	5%	1/6W	
R081	1-247-843-00	CARBON	3.3K	5%	1/6W	
R082	1-247-775-00	CARBON	4.7	5%	1/6W	
R083	⚠1-247-831-00	CARBON	1K	5%	1/6W	
R084	1-247-803-00	CARBON	68	5%	1/6W	
R087	1-249-434-11	CARBON	27K	5%	1/6W	
R088	1-249-434-11	CARBON	27K	5%	1/6W	
R501	1-247-867-00	CARBON	33K	5%	1/6W	
R502	1-249-429-11	CARBON	10K	5%	1/6W	
R503	1-247-843-00	CARBON	3.3K	5%	1/6W	
R504	1-247-843-00	CARBON	3.3K	5%	1/6W	
R505	1-247-841-00	CARBON	2.7K	5%	1/6W	
R506	1-247-839-00	CARBON	2.2K	5%	1/6W	
R507	1-247-841-00	CARBON	2.7K	5%	1/6W	
R508	1-247-827-00	CARBON	680	5%	1/6W	
R509	1-247-857-00	CARBON	12K	5%	1/6W	
R510	1-247-845-00	CARBON	3.9K	5%	1/6W	
R511	1-247-879-00	CARBON	100K	5%	1/6W	
R512	1-247-829-00	CARBON	820	5%	1/6W	
R513	1-247-829-00	CARBON	820	5%	1/6W	
R517	⚠1-247-847-00	CARBON	4.7K	5%	1/6W	
R518	1-247-889-00	CARBON	270K	5%	1/6W	
R519	1-247-903-00	CARBON	1M	5%	1/6W	
R523	1-247-840-00	CARBON	2.4K	5%	1/6W	
R524	1-247-841-00	CARBON	2.7K	5%	1/6W	
R525	1-247-859-00	CARBON	15K	5%	1/6W	
R526	1-247-863-00	CARBON	22K	5%	1/6W	
R527	1-247-861-00	CARBON	18K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R528	1-247-839-00	CARBON	2.2K	5%	1/6W	
R529	1-249-437-11	CARBON	47K	5%	1/6W	
R531	1-247-839-00	CARBON	2.2K	5%	1/6W	
R532	1-247-843-00	CARBON	3.3K	5%	1/6W	
R533	⚠1-247-831-00	CARBON	1K	5%	1/6W	
R535	1-247-845-00	CARBON	3.9K	5%	1/6W	
R536	1-247-831-00	CARBON	1K	5%	1/6W	
R537	1-247-867-00	CARBON	33K	5%	1/6W	
R538	1-247-875-00	CARBON	68K	5%	1/6W	
R539	⚠1-247-831-00	CARBON	1K	5%	1/6W	
R541	1-249-429-11	CARBON	10K	5%	1/6W	
R543	⚠1-247-847-00	CARBON	4.7K	5%	1/6W	
R553	⚠1-247-837-00	CARBON	1.8K	5%	1/6W	
R554	1-249-437-11	CARBON	47K	5%	1/6W	
R555	1-249-437-11	CARBON	47K	5%	1/6W	
R564	1-247-861-00	CARBON	18K	5%	1/6W	
R701	1-247-821-00	CARBON	390	5%	1/6W	
R702	1-247-821-00	CARBON	390	5%	1/6W	
R703	1-247-807-00	CARBON	100	5%	1/6W	
R704	1-247-807-00	CARBON	100	5%	1/6W	
R705	1-247-879-00	CARBON	100K	5%	1/6W	
R706	1-247-831-00	CARBON	1K	5%	1/6W	
R707	1-247-827-00	CARBON	680	5%	1/6W	
R708	1-247-879-00	CARBON	100K	5%	1/6W	
R722	1-247-783-00	CARBON	10	5%	1/6W	

VARIABLE RESISTOR

Ref.No	Part No.	Description
RV001	1-228-993-00	RES, ADJ, CARBON 4.7K
RV501	1-228-995-00	RES, ADJ, CARBON 22K
RV502	1-228-994-00	RES, ADJ, CARBON 10K
RV503	1-228-993-00	RES, ADJ, CARBON 4.7K

FILTER

Ref.No	Part No.	Description
SF001	1-404-416-00	SAWF

****

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

PS-52A PS-53A

MISCELLANEOUS
****

Ref.No	Part No.	Description	Remark
	A-7090-029-A	M-SW ASSY	
	X-3686-549-1	L-SW ASSY	
	⚠1-464-589-11	BOOSTER MIXER, RF MODULATOR (Australian Model)	
	⚠1-551-732-00	CORD, POWER (Australian Model)	
	1-535-535-11	TERMINAL, SHAFT GROUND	
	*1-555-110-00	CABLE, PIN	
C901	1-616-057-00	CAP, CERAMIC 0.033MF	
M904	⚠A-7090-030-A	MOTOR ASSY, L	
M901	8-838-094-01	MOTOR, DC (BHF-2800C) (CAPSTAN)	
M903	8-835-110-01	MOTOR, DC (DNR-5301A) (CONTROL)	
PM901	⚠1-454-377-11	SOLENOID, PLUNGER	
S901	1-554-942-11	SWITCH, PUSH	
T901	⚠1-448-170-11	TRANSFORMER, POWER	

****

ACCESSORIES AND PACKING MATERIALS
****

Part No.	Description	Remark
A-6765-725-A	COMMANDER ASSY RMT-409	
1-551-513-00	CORD ASSY, COAXIAL	
1-557-848-11	CABLE,VIDEO MONITOR	
*3-689-589-01	CUSHION (UPPER)	
*3-689-590-01	CUSHION (LOWER)	
3-694-484-01	DRIVER, VOLUME	
*3-697-945-01	INDIVIDUAL CARTON (Australian Model)	
3-701-630-00	BAG, POLYETHYLENE	
3-701-590-01	BAG, POLYETHYLENE	
3-760-268-11	MANUAL, INSTRUCTION (AEP/UK/Australian Model) (English)	
3-764-358-41	INSTRUCTION	

****

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

10b

EV-A300EC/UB

RMT-409

SONY

SERVICE MANUAL

AEP Model
(EV-A300EC)
UK Model
(EV-A300UB)
February, 1986

SUPPLEMENT-2

Subject: Addition of Silver Cabinet Model

- A silver cabinet model has been added to EV-A300EC (AEP model).
  Only the exterior has been changed, and the functions and performance are exactly the same as those of the black cabinet model.
  This Supplement includes only the list of the parts differing from the black cabinet model.
  For any other information, refer to the Service Manual for EV-A300EC/UB.
- File this Supplement-2 with the Service Manual.

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Consumer
VIDEO

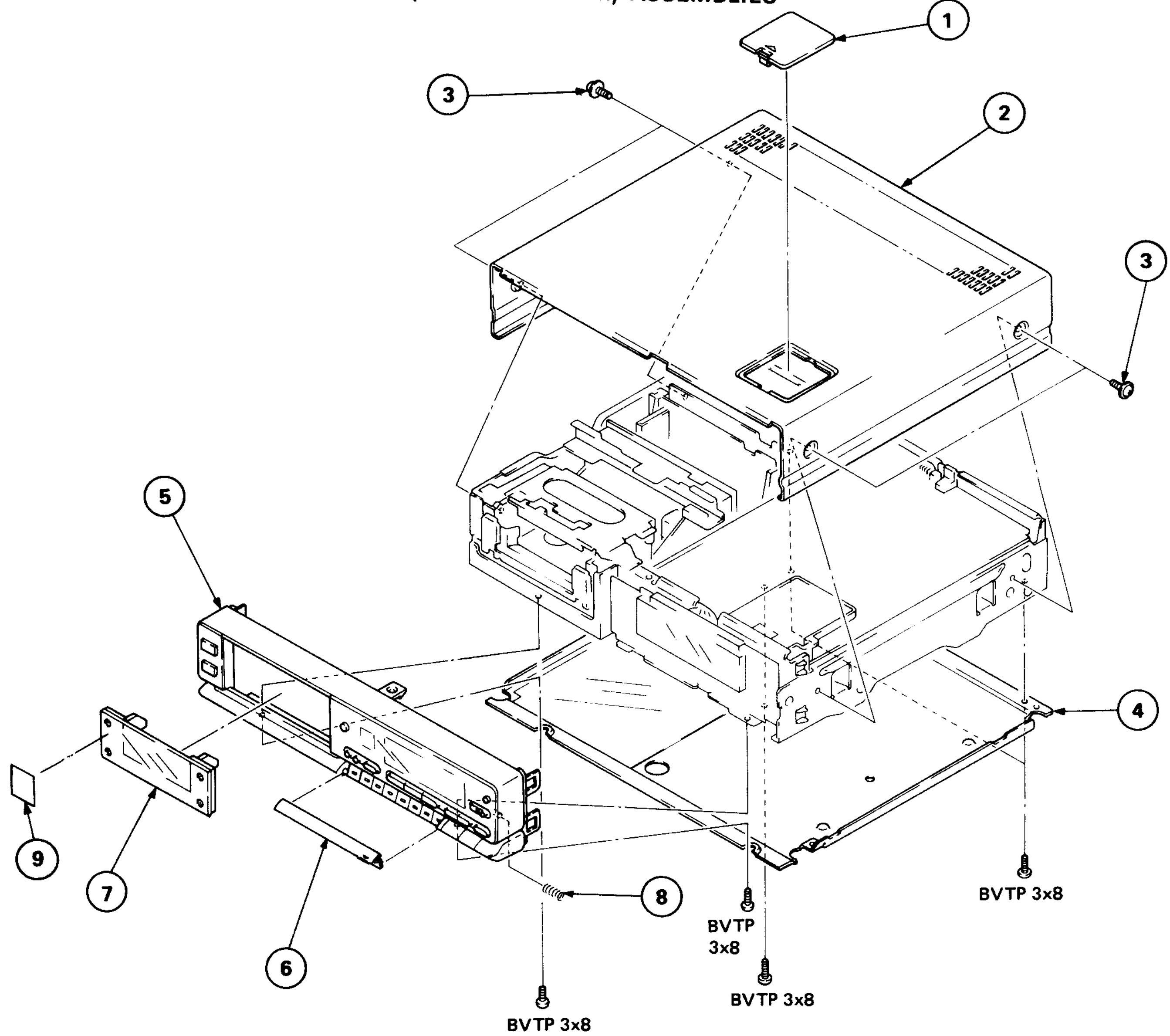
SECTION 5
EXPLODED VIEWS

NOTE:

- Itmes with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-1. FRONT PANEL AND CABINET (UPPER, BOTTOM) ASSEMBLIES



No.	Part No.	Description	Remark
1	*2-352-647-01	LID, PRESET (BLACK)(AEP, UK MODEL)	
	*2-352-647-31	LID, PRESET (SILVER)(AEP MODEL)	
2	3-691-908-01	CASE, UPPER (BLACK)(AEP, UK MODEL)	
	3-691-908-11	CASE, UPPER (SILVER)(AEP MODEL)	
3	4-886-821-01	SCREW, M3 CASE (BLACK)(AEP, UK MODEL)	
	4-886-821-11	SCREW, M3 CASE (SILVER) (AEP MODEL)	
4	*X-3689-011-1	PLATE ASSY, BOTTOM	
5	X-3689-024-1	PANEL ASSY, FRONT (AEP MODEL) (BLACK)	
	X-3689-078-1	PANEL ASSY, FRONT (AEP MODEL) (SILVER)	
	X-3689-029-1	PANEL ASSY, FRONT (UK MODEL)	
6	3-691-902-01	DOOR, FRONT (BLACK)(AEP, UK MODEL)	
	3-691-902-12	DOOR, FRONT (SILVER)(AEP MODEL)	
7	X-3689-007-3	LID (L) ASSY	
8	4-869-230-00	SPRING, COMPRESSION	
9	*3-703-713-01	STICKER, SONY SYMBOL (10)	

MISCELLANEOUS
****

Ref.No	Part No.	Description	Remark
	A-7090-029-A	M-SW ASSY	
	X-3686-549-1	L-SW ASSY	
	⚠1-464-470-11	BOOSTER MIXER, RF MODULATOR (UK MODEL)	
	⚠1-464-471-11	BOOSTER MIXER, RF MODULATOR (AEP MODEL)	
	⚠1-534-817-XX	CORD, POWER (AEP MODEL)	
	⚠1-551-884-00	CORD, POWER (UK MODEL)	
	1-535-535-11	TERMINAL, SHAFT GROUND	
	*1-555-110-00	CABLE, PIN	
C901	1-616-073-11	CAP. CERAMIC 0.033MF	
M904	⚠A-7090-030-A	MOTOR ASSY, L	
M901	8-838-094-01	MOTOR, DC (BHF-2800C) (CAPSTAN)	
M903	8-835-110-01	MOTOR, DC (DNR-5301A) (CONTROL)	
PM901	1-454-377-11	SOLENOID, PLUNGER	
S901	1-554-942-11	SWITCH, PUSH	
T901	⚠1-448-170-11	TRANSFORMER, POWER	

****

ACCESSORIES AND PACKING MATERIALS
****

Part No.	Description	Remark
A-6765-725-A	COMMANDER ASSY RMT-409	
1-551-513-00	CORD ASSY, COAXIAL	
*3-689-589-01	CUSHION (UPPER)	
*3-689-590-01	CUSHION (LOWER)	
3-694-484-01	DRIVER, VOLUME	
*3-695-935-01	INDIVIDUAL CARTON (BLACK) (AEP MODEL)	
*3-695-935-11	INDIVIDUAL CARTON (SILVER) (AEP MODEL)	
*3-695-936-01	INDIVIDUAL CARTON (UK MODEL)	
3-701-630-00	BAG, POLYETHYLENE	
3-760-268-14	MANUAL, INSTRUCTION (AEP, UK MODEL) (English)	
3-760-268-44	MANUAL, INSTRUCTION (AEP MODEL) (Spanish, Swedish, Italian)	
3-760-268-54	MANUAL, INSTRUCTION (AEP MODEL) (French, Germany, Dutch)	

****

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

V-A300EC/UB
RMT-409

English
86B0956-1
Printed in Japan

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9-972-415-82

Sony Corporation

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EV-A300EC/UB

RMT-409

SONY®

SERVICE MANUAL

AEP Model
(EV-A300EC)
UK Model
(EV-A300UB)
March, 1986

SUPPLEMENT-3

Subject: E Model has been added

- The E model EV-A300E has been designed based on the EV-A300EC AEP model.
  The differences between the two models are the video, system control, servo and power block.
  The Supplement-3 contains the main differences between the two models, including block diagram, schematic, mounting diagram and parts list.
  Refer to the Service Manual for EV-A300EC/UB for other information.

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Consumer
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6.	ELECTRICAL PARTS LIST	44

1. GENERAL

Supplement to the EV-A300EC/UB Operating Instructions on Service manual.

The EV-A300E is almost the same as the EV-A300EC/UB. The differences relate mainly to the difference in TV broadcasting system.

TV channel coverage of the EV-A300E

VHF: E2–4 (VL)
E5–12 (VH)
UHF: E21–68

The recorder operations are the same as those of the EV-A300EC/UB, except for the following pages of the Operating Instructions on Service manual.

SPECIFICATIONS of the EV-A300E

Only the following items should be changed.

Video signal	CCIR system B, G and H, PAL colour
Channel coverage	VHF Channels E2–12 UHF Channels E21–68
Aerial input	75-ohm, asymmetrical aerial socket
RF output signal	UHF Channels E30 to E39 (variable), 75 ohms, unbalanced
Power requirements	200–240V ac, 50/60Hz
Power consumption	20W

Accessories supplied

75-ohm coaxial cable for TV connection (1)
VMC-2104MS (21-pin connector to 4 phono plugs) (1)
Remote Commander RMT-409 (1)
IEC designation R6 battery (2)
Screwdriver (1)

Design and specifications subject to change without notice.

Note

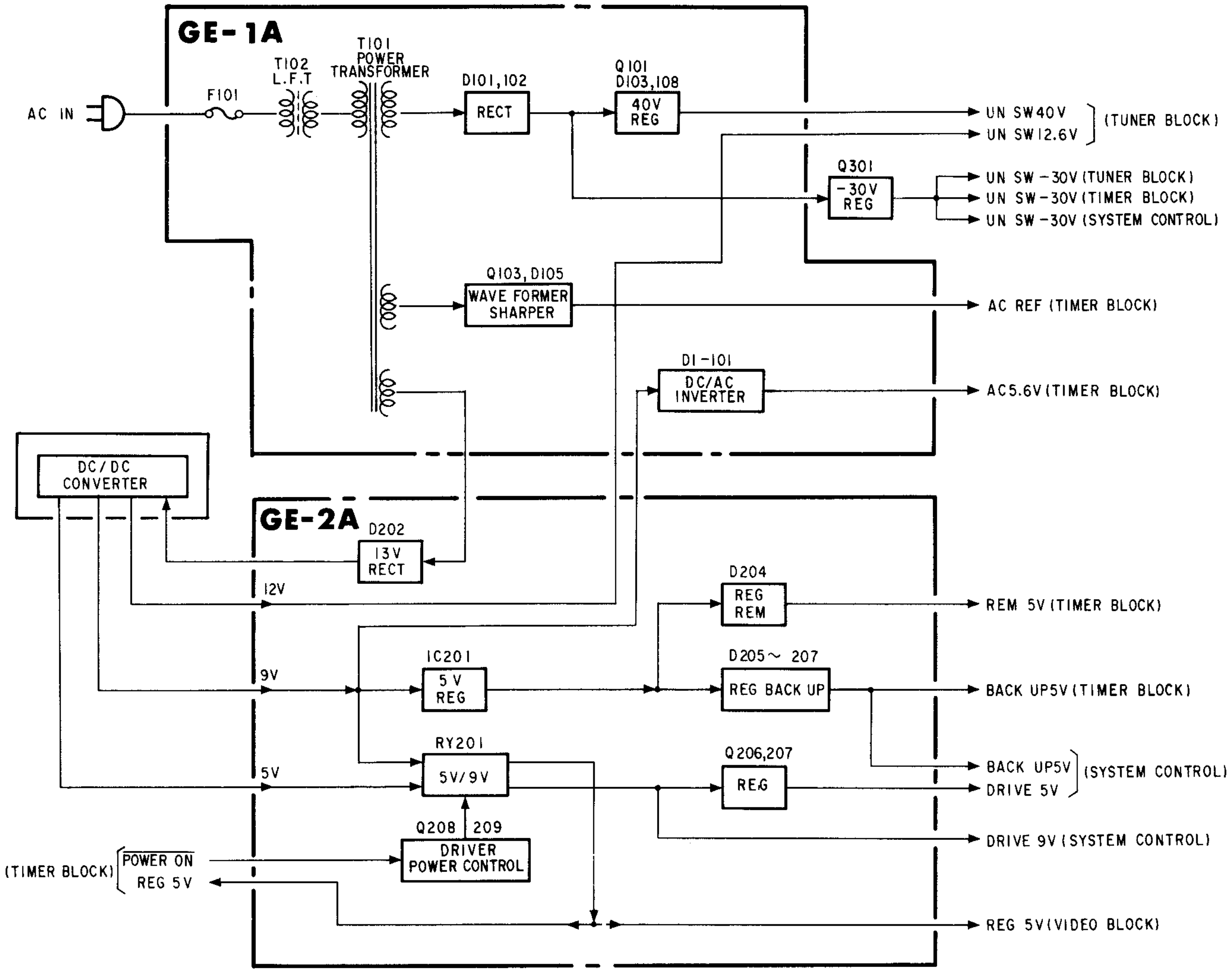
This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

OPTIONAL CONNECTING CABLES

VMC-2121CE (21-pin connector to 21-pin connector)
VMC-2106S (21-pin connector to 6 phono plugs)

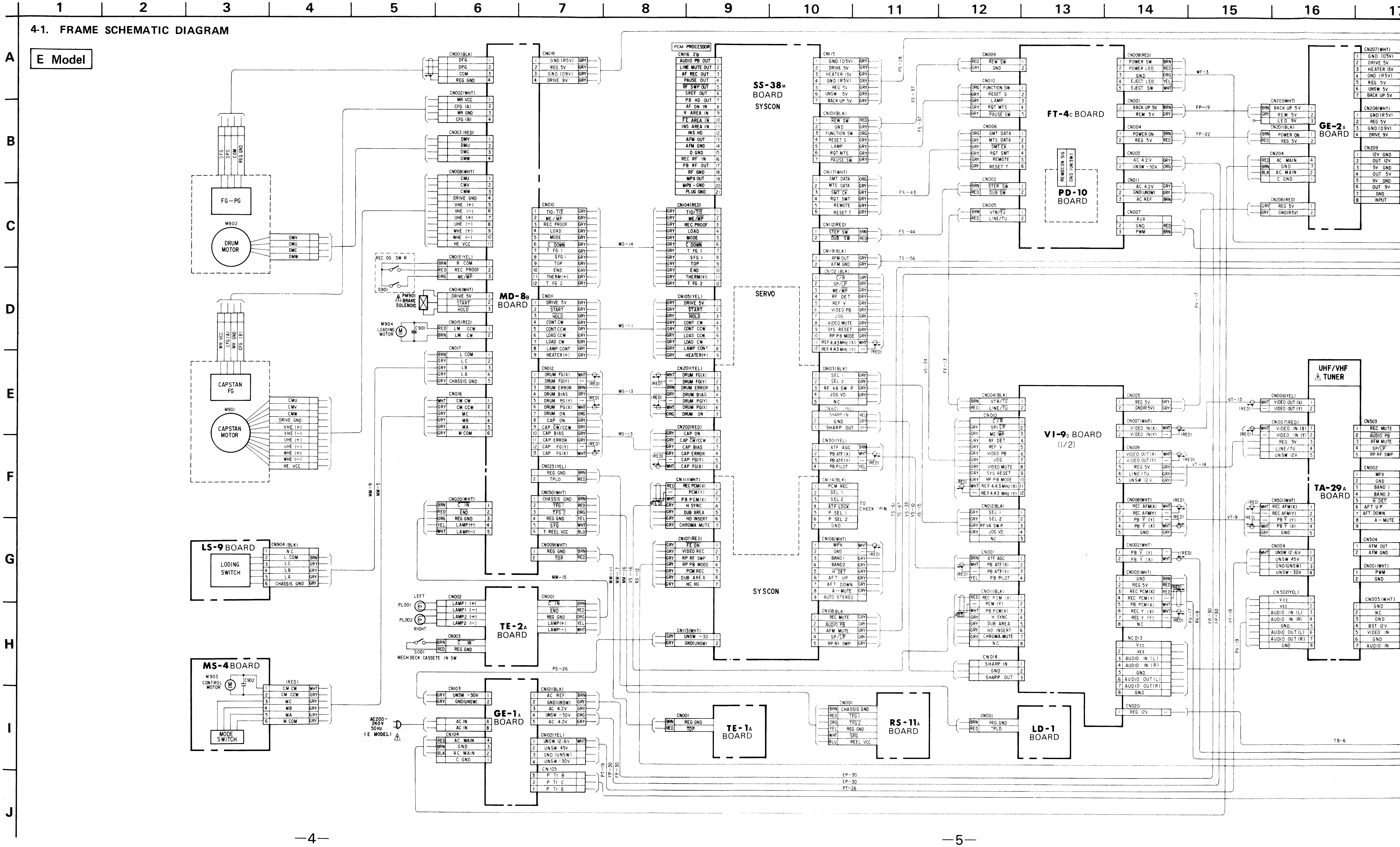
3. DIAGRAMS

POWER BLOCK DIAGRAM

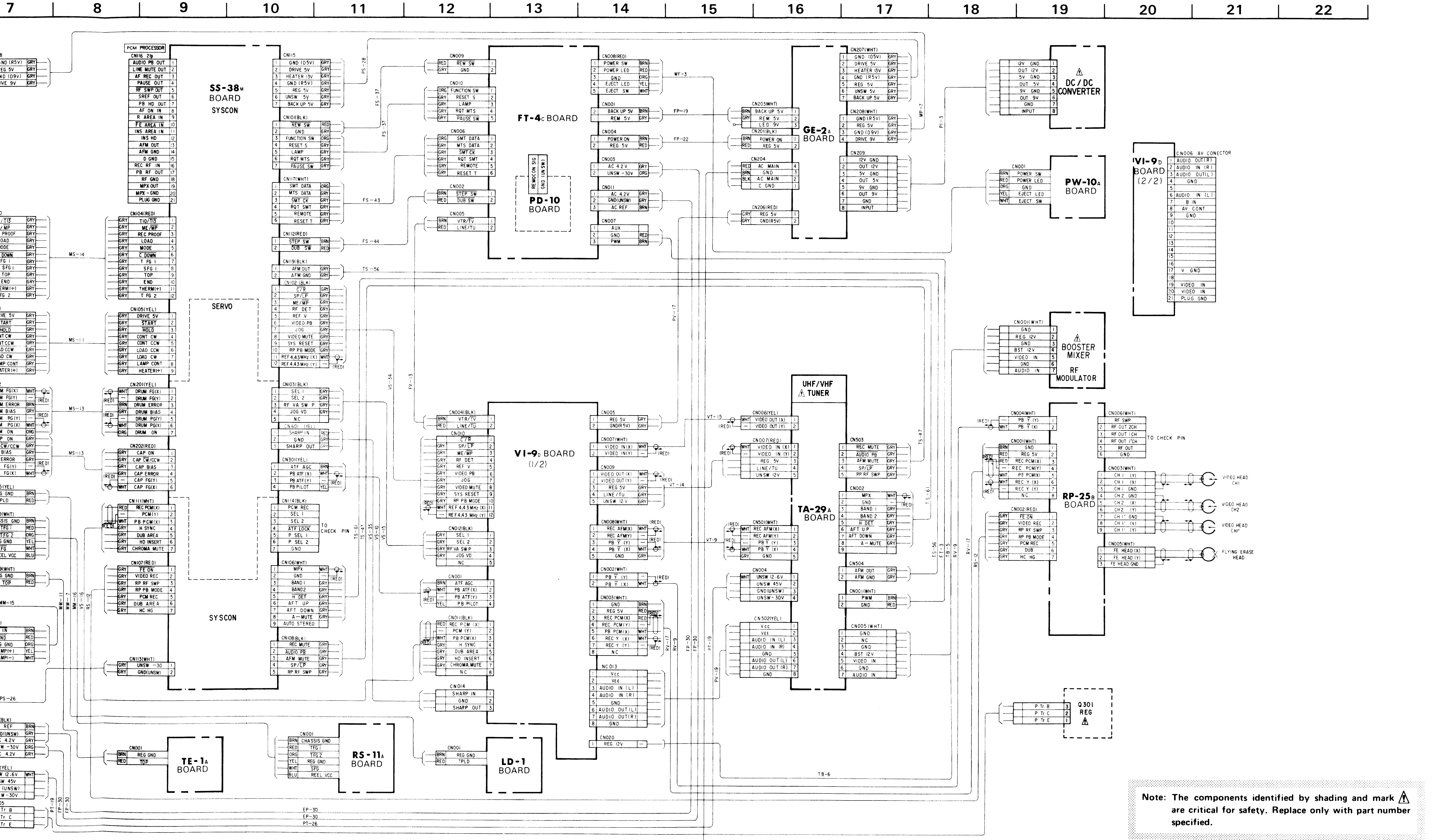

GE-1A
AC IN
F101
T102 L.F.T
T101 POWER TRANSFORMER
D101,102
RECT
Q101 D103,108
40V REG
UN SW40V
UN SW12.6V
(TUNER BLOCK)
Q301
-30V REG
UN SW -30V (TUNER BLOCK)
UN SW-30V (TIMER BLOCK)
UN SW -30V (SYSTEM CONTROL)
Q103, D105
WAVE FORMER SHARPER
AC REF (TIMER BLOCK)
DI-101
DC/AC INVERTER
AC5.6V (TIMER BLOCK)
DC/DC CONVERTER
GE-2A
D202
13V RECT
12V
D204
REG REM
REM 5V (TIMER BLOCK)
IC201
5V REG
9V
D205~ 207
REG BACK UP
BACK UP5V (TIMER BLOCK)
RY201
5V/9V
5V
Q206,207
REG
BACK UP5V
DRIVE 5V
(SYSTEM CONTROL)
DRIVE 9V (SYSTEM CONTROL)
Q208 209
DRIVER POWER CONTROL
(TIMER BLOCK)
POWER ON
REG 5V
REG 5V (VIDEO BLOCK)

4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM


E Model
FG-PG
M902
DRUM MOTOR
CAPSTAN FG
M901
CAPSTAN MOTOR
LS-9 BOARD
LODING SWITCH
MS-4 BOARD
M903 CONTROL MOTOR
MODE SWITCH
REC OG SW R
S901
PM901 BRAKE SOLENOID
M904 LOADING MOTOR
MD-8B BOARD
TE-2A BOARD
PL001 LEFT
PL002 RIGHT
S001 MECH DECK CASSETE IN SW
GE-1A BOARD
AC200-240V 50Hz (E MODEL)
PCM PROCESSOR
SS-38M BOARD SYSCON
SERVO
SYSCON
TE-1A BOARD
RS-11A BOARD
LD-1 BOARD
FT-4C BOARD
PD-10 BOARD
VI-9D BOARD (1/2)
GE-2A BOARD
UHF/VHF TUNER
TA-29A BOARD
MS-14
MS-11
MS-13
MM-9
MM-5
MM-15
PS-26
PS-28
FS-37
FS-43
FS-44
TS-56
PV-17
FV-13
VS-34
TS-61
TS-47
VS-35
VS-10
VS-15
WF-3
FP-19
FP-22
VT-15
VT-14
VT-9
RV-17
RV-9
FP-30
PT-19
PV-19
EP-30
PT-26
TB-6
TO CHECK PIN

FRAME FRAME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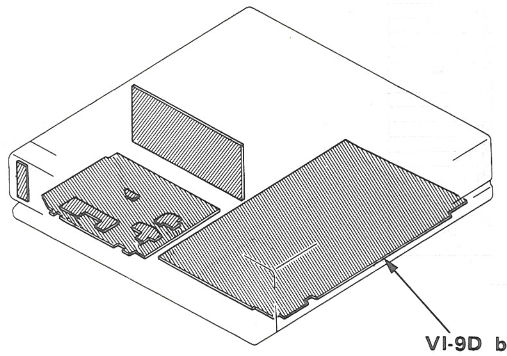
PCM PROCESSOR
SS-38M BOARD
SYSCON
SERVO
SYSCON
FT-4C BOARD
PD-10 BOARD
REMOCON SIG
GND (UNSW)
GE-2A BOARD
DC/DC CONVERTER
PW-10A BOARD
VI-9D BOARD (2/2)
CN006 AV CONECTOR
BOOSTER MIXER
RF MODULATOR
UHF/VHF TUNER
VI-9D BOARD (1/2)
TA-29A BOARD
RP-25B BOARD
TO CHECK PIN
VIDEO HEAD CH1
VIDEO HEAD CH2
VIDEO HEAD CH1'
FLYING ERASE HEAD
Q301 REG
TE-1A BOARD
RS-11A BOARD
LD-1 BOARD
TB-6
EP-30
PT-26

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note (Printed Wiring Board):

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- 🟥 : B + pattern.
- Digital transistor (VI-9D: Q002, 011, 014, 015, 017, 021, 100, 101, 107, 108, 109, 111, 201, 205, 207, 213, 214, 218, 258, 300, 401) transistor with resistors.
  Refer to the VI-9D board schematic diagram for digital transistor.



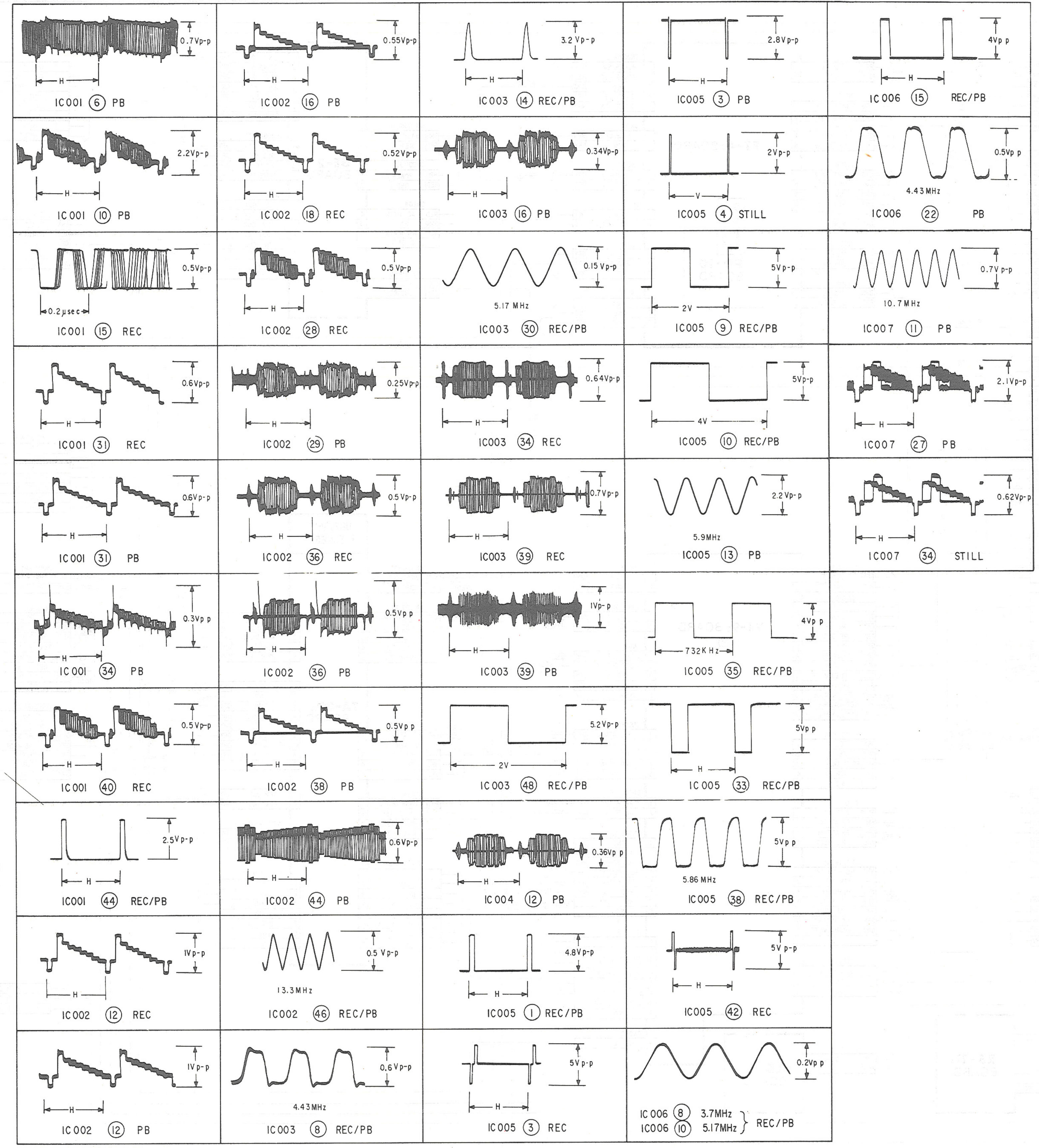
Note (Schematic Diagram):

- All capacitors are in μF unless otherwise noted, pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted.
  kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- —▭— : nonfiammable resistor.
- —∿— : fusible resistor.
- ▬ : B + bus.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

> Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

VI-9D BOARD



VI-9D (VIDEO) PRINTED WIRING BOARD

1　2　3

–Ref. No. VI-9D BOARD: 1000 series–

E Model

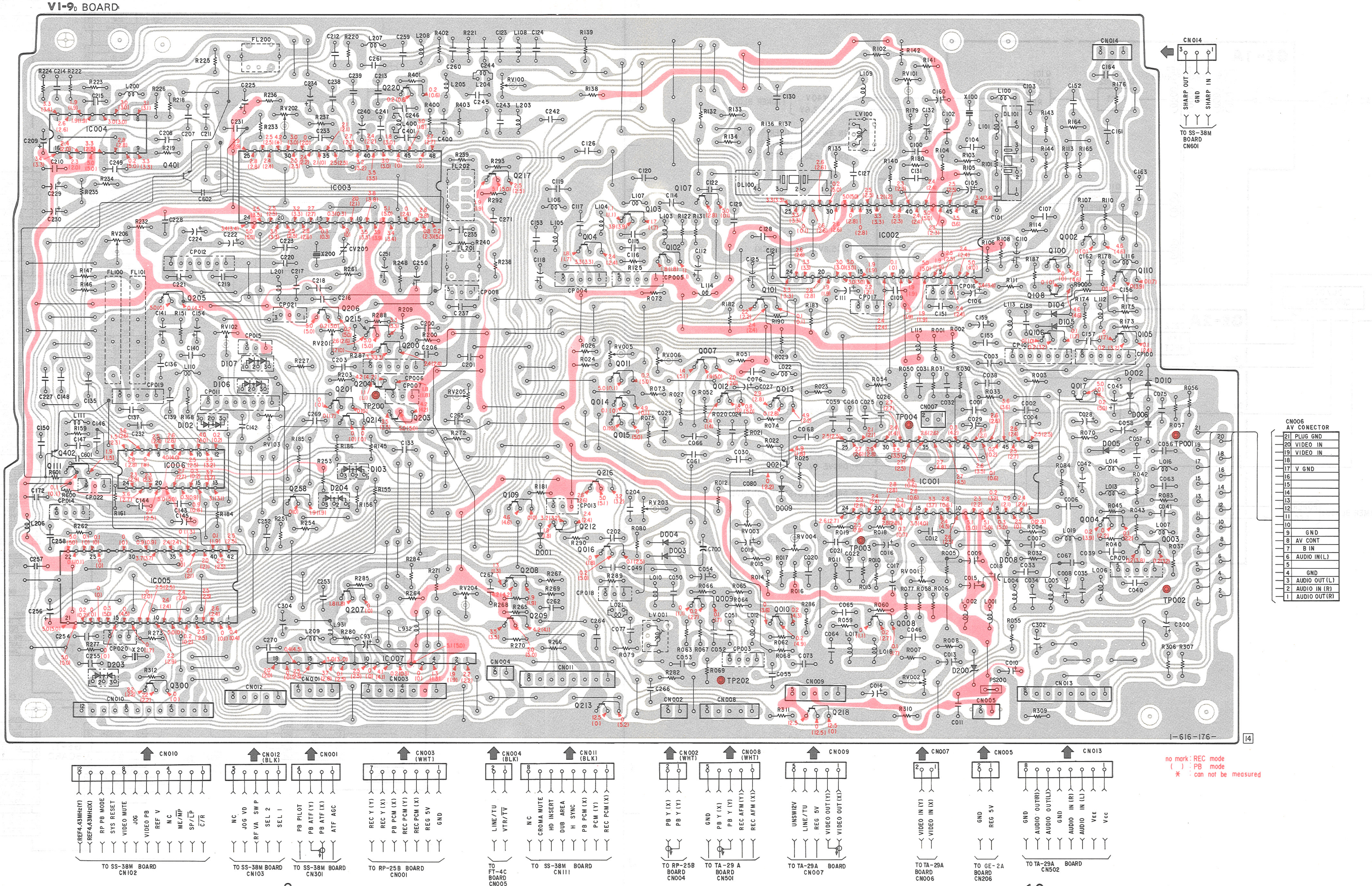
	IC, Q	D	ADJ	TP
A				
B	220 IC004		101 100 202	
C	IC003 217 107 IC002 103 002		206	
D	104 102 100 110 205 101 108 206	104 105		
E	215 106 105 200 007 011 204 012 013 017 201 014 015 203	107 010 106 002 102 006	201 102 005 006 205 103	200 004,001
F	214 IC006 021 111 IC001 216 258 109 004 212	005 103 009 204	203 003	
G	016 003 IC005 208 207 009 010 008	001 008 004 003	004 001 204	003 002
H	209 IC008 IC007 300 213 218	200 203	002	202
I				
J				
	IC, Q	D	ADJ	TP

) PRINTED WIRING BOARD

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

D BOARD: 1000 series–

	D		ADJ	TP
			101	
			100	
			202	
C002				
002			206	
100				
110				
108				
		104		
		105		
106			201	
105			102	
7	107		005	
			006	
		010		
	106	002		
2 3 017			205	200
	102	006	103	004,001
		005		
1	103			
IC001		009		
	204		203	
			003	
004	001 004	008	004	003
5 003	003			
			001	
9			204	002
) 008				
IC008		200		202
	203		002	
13 218				
	D		ADJ	TP

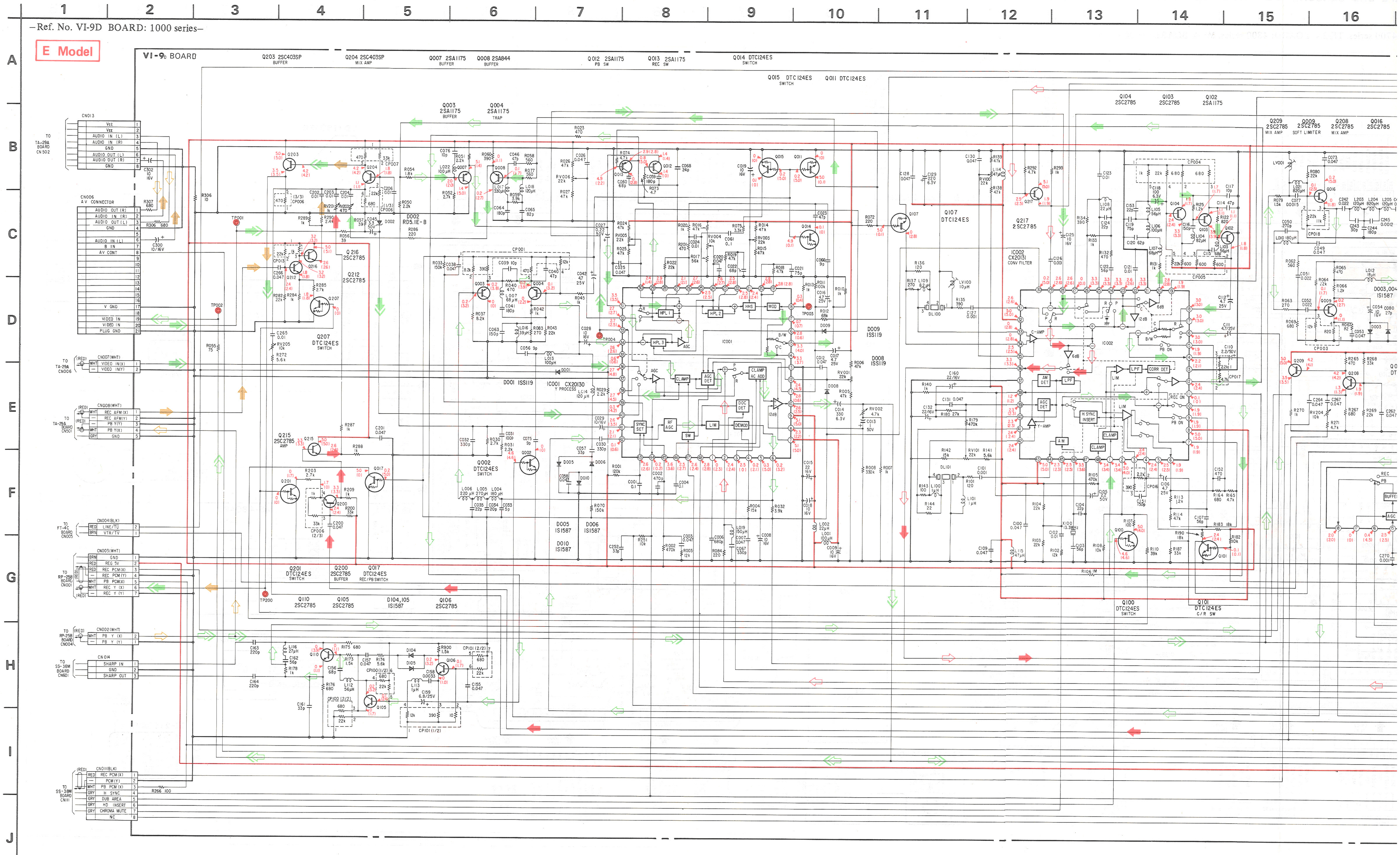

VI-9 BOARD
1-616-176-
14
IC001
IC002
IC003
IC004
IC005
IC006
IC007
CN014
SHARP OUT
GND
SHARP IN
TO SS-38M BOARD CN601
CN006 AV CONECTOR
21 PLUG GND
20 VIDEO IN
19 VIDEO IN
18
17 V GND
16
15
14
13
12
11
10
9 GND
8 AV CONT
7 B IN
6 AUDIO IN(L)
5
4 GND
3 AUDIO OUT(L)
2 AUDIO IN (R)
1 AUDIO OUT(R)
CN010
REF4.43MHz(Y)
REF4.43MHz(X)
RP PB MODE
SYS RESET
VIDEO MUTE
JOG
VIDEO PB
REF V
NC
ME/MP
SP/LP
C/R
TO SS-38M BOARD CN102
CN012 (BLK)
NC
JOG VD
RF VA SW P
SEL 2
SEL 1
TO SS-38M BOARD CN103
CN001
PB PILOT
PB ATF (Y)
PB ATF (X)
ATF AGC
TO SS-38M BOARD CN301
CN003 (WHT)
REC Y (Y)
REC Y (X)
PB PCM (X)
REC PCM (Y)
REC PCM (X)
REG 5V
GND
TO RP-25B BOARD CN001
CN004 (BLK)
LINE/TU
VTR/TV
TO FT-4C BOARD CN005
CN011 (BLK)
NC
CROMA MUTE
HD INSERT
DUB AREA
H SYNC
PB PCM (X)
PCM (Y)
REC PCM (X)
TO SS-38M BOARD CN111
CN002 (WHT)
PB Y (X)
PB Y (Y)
TO RP-25B BOARD CN004
CN008 (WHT)
GND
PB Y (X)
PB Y (Y)
REC AFM (Y)
REC AFM (X)
TO TA-29 A BOARD CN501
CN009
UNSW12V
LINE/TU
REG 5V
VIDEO OUT (Y)
VIDEO OUT (X)
TO TA-29A BOARD CN007
CN007
VIDEO IN (Y)
VIDEO IN (X)
TO TA-29A BOARD CN006
CN005
GND
REG 5V
TO GE-2A BOARD CN206
CN013
GND
AUDIO OUT(R)
AUDIO OUT(L)
GND
AUDIO IN (R)
AUDIO IN (L)
VEE
Vcc
TO TA-29A BOARD CN502

no mark : REC mode
( ) : PB mode
* : can not be measured

VI-9D (VIDEO) SCHEMATIC DIAGRAM

—Ref. No. VI-9D BOARD: 1000 series—

E Model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13
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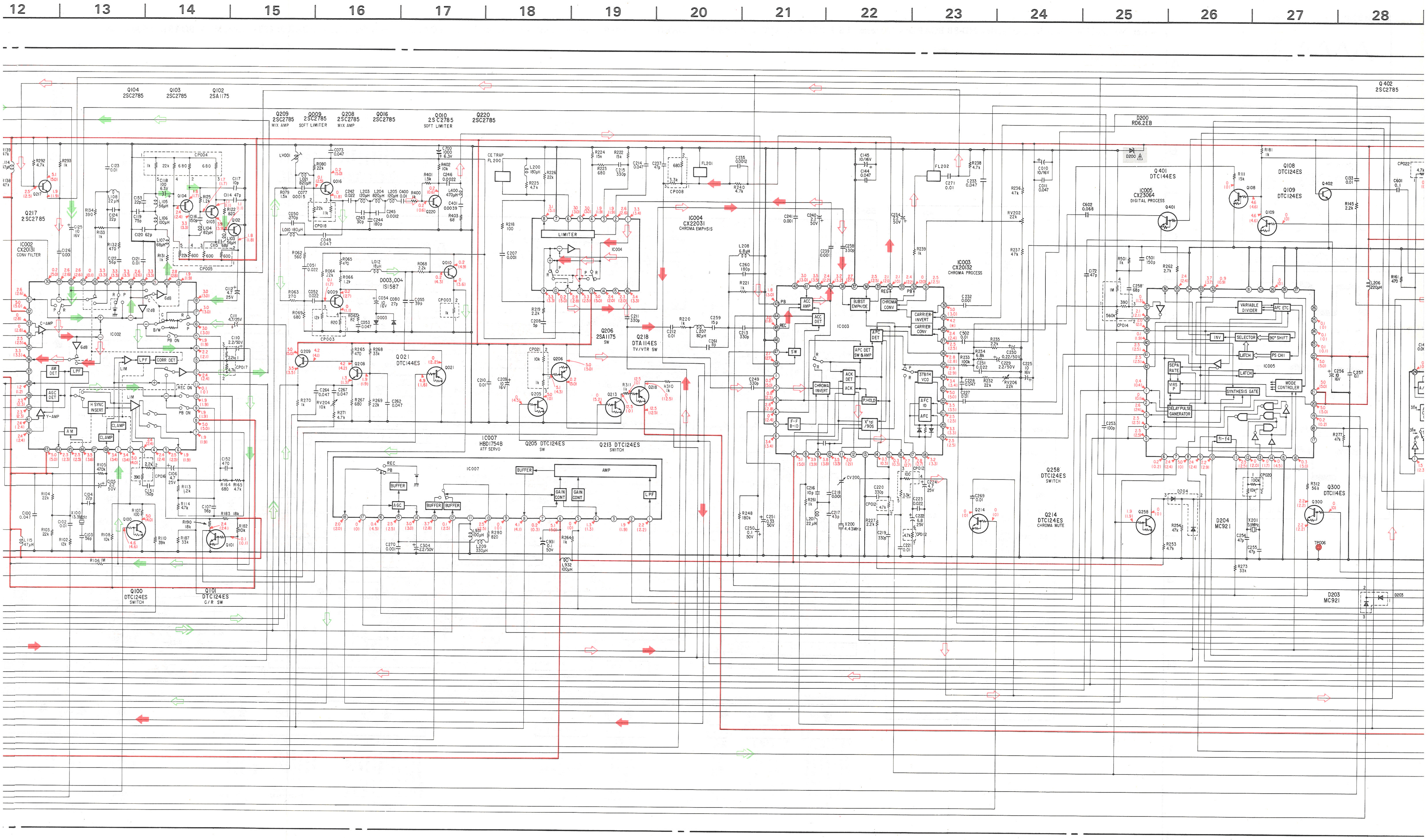
15
16
A
B
C
D
E
F
G
H
I
J
VI-9D BOARD
Q203 2SC403SP BUFFER
Q204 2SC403SP MIX AMP
Q007 2SA1175 BUFFER
Q008 2SA844 BUFFER
Q012 2SA1175 PB SW
Q013 2SA1175 REC SW
Q014 DTC124ES SWITCH
Q015 DTC124ES SWITCH
Q011 DTC124ES
Q003 2SA1175 BUFFER
Q004 2SA1175 TRAP
Q104 2SC2785
Q103 2SC2785
Q102 2SA1175
Q209 2SC2785 MIX AMP
Q009 2SC2785 SOFT LIMITER
Q208 2SC2785 MIX AMP
Q016 2SC2785
CN013
TO TA-29A BOARD CN502
Vcc
Vcc
AUDIO IN (L)
AUDIO IN (R)
GND
AUDIO OUT (L)
AUDIO OUT (R)
GND
CN006 AV CONNECTOR
AUDIO OUT (R)
AUDIO OUT (L)
GND
AUDIO IN (L)
B IN
AV CONT
V GND
VIDEO IN
VIDEO IN
PLUG GND
TP001
TP002
Q216 2SC2785
Q212 2SC2785
Q207 DTC124ES SWITCH
D002 RD5.1E-B
Q107 DTC124ES
Q217 2SC2785
IC002 CX20131 CONV FILTER
TO TA-29A CN006
CN007(WHT)
VIDEO IN(X)
VIDEO IN(Y)
D001 1SS119
IC001 CX20130 Y PROCESS
TP004
TP003
D009 1SS119
D008 1SS119
IC001
IC002
HPL 1
HPL 2
HHS
MOD
HPL 3
AGC
CLAMP
AGC DET
CLAMP AC ADD
DOC DET
SYNC SET
RF AGC
LIM
DEMOD
SW
C-AMP
Y-AMP
LPF
CORR DET
AM DET
AGC DET
H SYNC INSERT
CLAMP
REC ON
PB ON
TO TA-29A BOARD CN501
CN008(WHT)
REC AFM(X)
REC AFM(Y)
PB Y(Y)
PB Y(X)
GND
Q215 2SC2785 AMP
Q002 DTC124ES SWITCH
D005 1SS187
D006 1SS187
D010 1SS187
TO FT-4C BOARD CN005
CN004(BLK)
LINE/TU
VTR/TV
CN003(WHT)
TO RP-25B BOARD CN001
GND
REG 5V
REC PCM(X)
REC PCM(Y)
PB PCM(X)
REC Y (X)
REC Y (Y)
TP200
Q201 DTC124ES SWITCH
Q200 2SC2785 BUFFER
Q017 DTC124ES REC/PB SWITCH
Q110 2SC2785
Q105 2SC2785
D104,105 1S1587
Q106 2SC2785
Q100 DTC124ES SWITCH
Q101 DTC124ES C/R SW
TO RP-25B BOARD CN004
CN002(WHT)
PB Y (X)
PB Y (Y)
TO SS-38M BOARD CN601
CN014
SHARP IN
GND
SHARP OUT
TO SS-38M BOARD CN111
CN011(BLK)
REC PCM(X)
PCM(Y)
PB PCM(X)
H SYNC
DUB AREA
HD INSERT
CHROMA MUTE
NC
R266 100
CP101 (1/2)
CP101 (2/2)
CP100 (1/2)
CP100 (2/2)
X100 3.58MHz
DL100
DL101
RV100
RV001
RV002
RV003
RV004
RV005
RV006
RV204
RV205
LV001
LV100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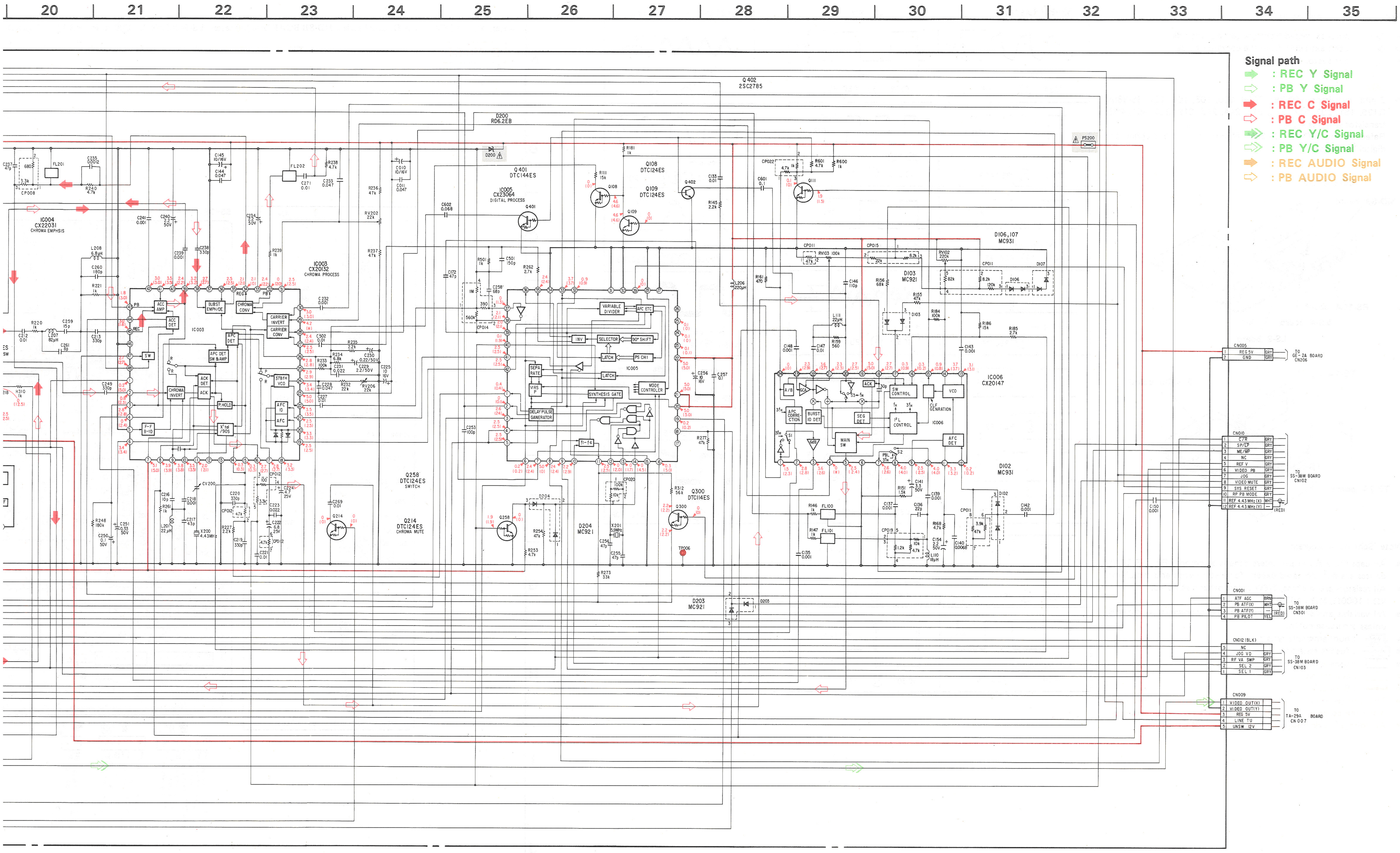
24
25
26
27
28
Q104 2SC2785
Q103 2SC2785
Q102 2SA1175
Q209 2SC2785 MIX AMP
Q009 2SC2785 SOFT LIMITER
Q208 2SC2785 MIX AMP
Q016 2SC2785
Q010 2SC2785 SOFT LIMITER
Q220 2SC2785
Q402 2SC2785
D200 RD6.2EB
Q217 2SC2785
IC002 CX20131 CONV FILTER
CP004
CP005
CP003
CP017
CP018
LV001
CE TRAP FL200
LIMITER
IC004
IC004 CX22031 CHROMA EMPHSIS
FL201
FL202
CP008
IC003 CX20132 CHROMA PROCESS
Q401 DTC144ES
IC005 CX23064 DIGITAL PROCESS
Q108 DTC124ES
Q109 DTC124ES
D003,004 1S1587
Q206 2SA1175 SW
Q218 DTA114ES TV/VTR SW
Q021 DTC144ES
IC007 HBD1754B ATF SERVO
Q205 DTC124ES SW
Q213 DTC124ES SWITCH
Q258 DTC124ES SWITCH
Q214 DTC124ES CHROMA MUTE
D204 MC921
Q300 DTC114ES
D203 MC921
Q100 DTC124ES SWITCH
Q101 DTC124ES C/R SW
LPF
CORR DET
AGC DET
AM DET
H SYNC INSERT
CLAMP
Y-AMP
C-AMP
LIM
REC ON
PB ON
BUFFER
AGC
GAIN CONT
AMP
REC
PB
ACC AMP
ACC DET
APC DET
APC DET SW & AMP
ACK DET
ACK
P.HOLD
BURST EMPH/DE
CHROMA CONV
CARRIER INVERT
CARRIER CONV
378fH VCO
AFC
CHROMA INVERT
F-F B-ID
X'tal /90S
SW
REG
VARIABLE DIVIDER
AFC ETC
INV
SELECTOR
90° SHIFT
LATCH
PS CH1
SEPA RATE
VIRS
SYNTHESIS GATE
MODE CONTROLER
DELAY PULSE GENERATOR
fH-1/4
CP020
CP021
CP012
CP014
CP022
X100 3.58MHz
X200 4.43MHz
X201 5.9MHz
TP006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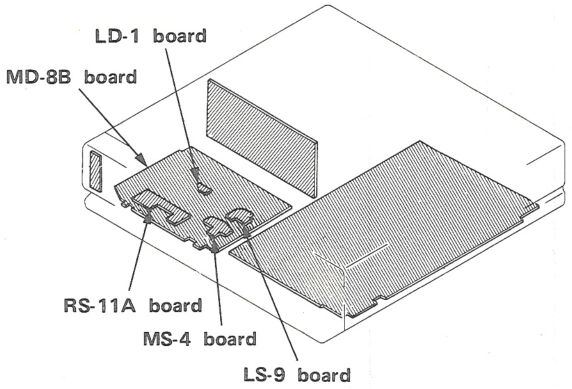
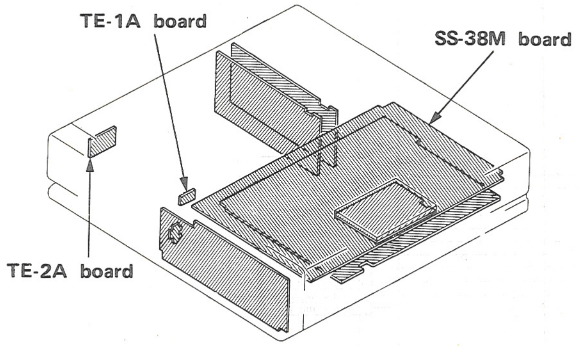
Signal path
🟩 : REC Y Signal
⇨ : PB Y Signal
🟥 : REC C Signal
⇨ : PB C Signal
🟩 : REC Y/C Signal
⇨ : PB Y/C Signal
🟧 : REC AUDIO Signal
⇨ : PB AUDIO Signal
IC004
CX22031
CHROMA EMPHSIS
IC003
CX20132
CHROMA PROCESS
IC005
CX23064
DIGITAL PROCESS
IC006
CX20147
Q401
DTC144ES
Q108
DTC124ES
Q109
DTC124ES
Q402
2SC2785
D200
RD6.2EB
D106, 107
MC931
D102
MC931
D103
MC921
D204
MC921
D203
MC921
Q258
DTC124ES
SWITCH
Q214
DTC124ES
CHROMA MUTE
Q300
DTC114ES
PS200
TP006
X200
4.43MHz
X201
8.9MHz
CN005
REG 5V
GND
TO GE-2A BOARD CN206
CN010
1 C/R GRY
2 SP/LP GRY
3 ME/MP GRY
4 NC GRY
5 REF V GRY
6 VIDEO PB GRY
7 JOG GRY
8 VIDEO MUTE GRY
9 SYS RESET GRY
10 RP PB MODE GRY
11 REF 4.43MHz (X) WHT
12 REF 4.43MHz (Y) —
(RED)
TO SS-38M BOARD CN102
CN001
1 ATF AGC BRN
2 PB ATF(X) WHT
3 PB ATF(Y) —
4 PB PILOT YEL
(RED)
TO SS-38M BOARD CN301
CN012 (BLK)
5 NC
4 JOG VD GRY
3 RF VA SWP GRY
2 SEL 2 GRY
1 SEL 1 GRY
TO SS-38M BOARD CN103
CN009
1 VIDEO OUT(X)
2 VIDEO OUT(Y)
3 REG 5V
4 LINE TU
5 UNSW 12V
TO TA-29A BOARD CN007
ACC AMP
ACC DET
BURST EMPH/DE
CHROMA CONV
CARRIER INVERT
CARRIER CONV
APC DET
APC DET SW & AMP
ACK DET
CHROMA INVERT
P.HOLD
X'tal /90S
F-F B-ID
3781H VCO
AFC ID
AFC
VARIABLE DIVIDER
AFC ETC
SELECTOR
90° SHIFT
INV
LATCH
PS CH1
SEPA RATE
VIRS P
SYNTHESIS GATE
MODE CONTROLER
DELAY PULSE GENERATOR
A/B
APC CORRE-CTION
BURST ID DET
SW CONTROL
CLF GENERATION
VCO
SEG DET
PLL CONTROL
MAIN SW
AFC DET

Note (Printed Wiring Board):

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- 🟥 : B + pattern.
- 🟨 : B – pattern.
- Digital transistor (MD-8B: Q006, 100, 105, 106, 107, SS-38M: Q125, 151, 207, 211, 212, 213, 214, 215, 219, 221, 401, 402) transistor with resistors.
  Refer to the MD-8B, SS-38M boards schematic diagram for digital transistor.

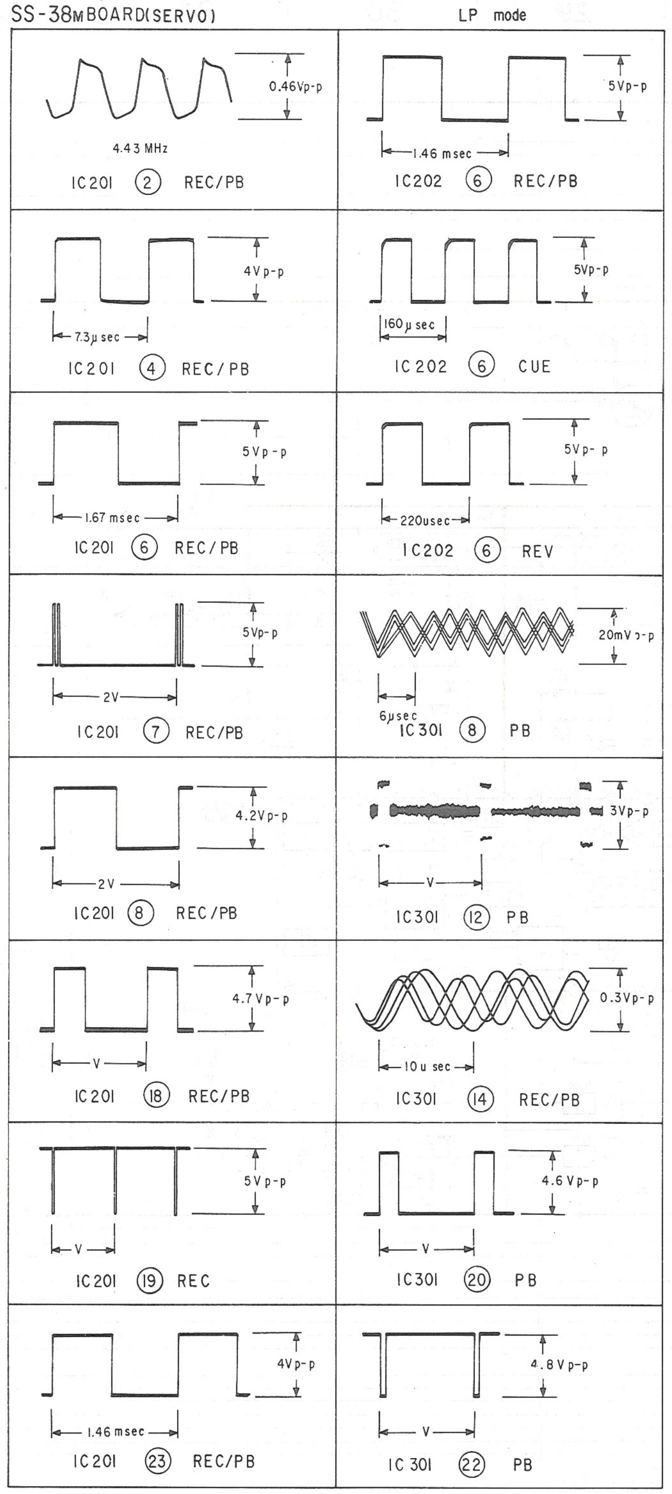

LD-1 board
MD-8B board
RS-11A board
MS-4 board
LS-9 board


TE-1A board
SS-38M board
TE-2A board

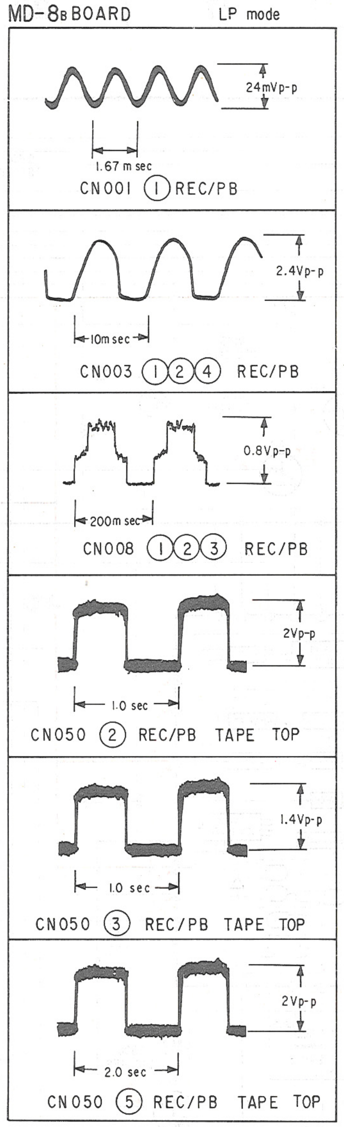
Note (Schematic Diagram):

- All capacitors are in μF unless otherwise noted, pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- ▭ : nonfiammable resistor.
- ▭ : fusible resistor.
- ▭ : panel disignation.
- ▭ : adjustment for repair.
- ▬ : B + bus.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

SS-38M BOARD(SERVO) LP mode



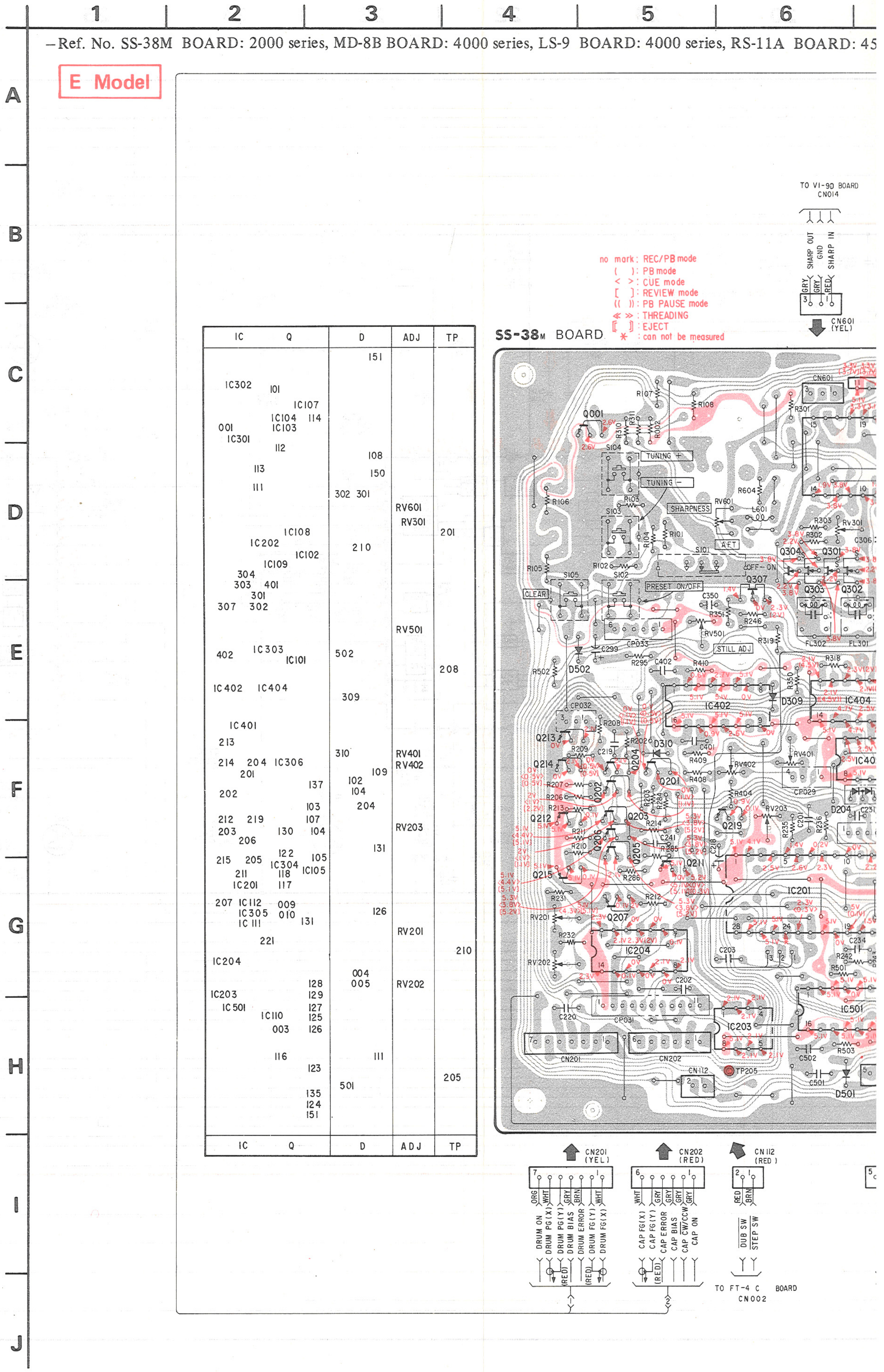
MD-8B BOARD LP mode



SS-38M (SERVO/SYSTEM CONTROL), MD-8B (MOTOR DRIVE), LS-9 (LOADING SW), RS-11A (REEI

–Ref. No. SS-38M BOARD: 2000 series, MD-8B BOARD: 4000 series, LS-9 BOARD: 4000 series, RS-11A BOARD: 45

E Model


1
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A
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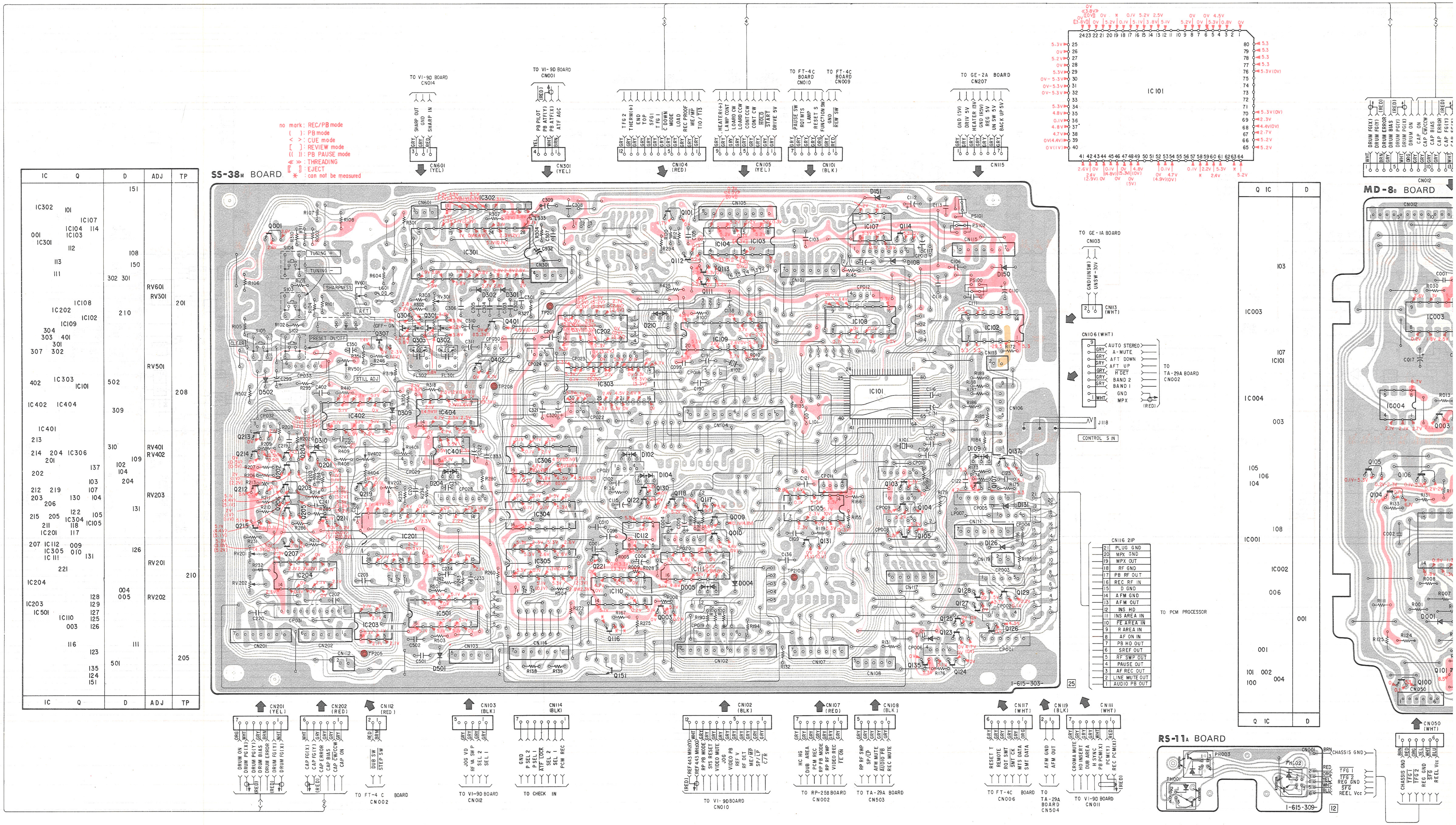
G
H
I
J
TO VI-9D BOARD CN014
SHARP OUT
GND
SHARP IN
GRY
GRY
RED
CN601 (YEL)
no mark : REC/PB mode
( ) : PB mode
< > : CUE mode
[ ] : REVIEW mode
(( )) : PB PAUSE mode
≪ ≫ : THREADING
⟦ ⟧ : EJECT
✱ : can not be measured
SS-38M BOARD
IC
Q
D
ADJ
TP
TUNING +
TUNING –
SHARPNESS
PRESET ON/OFF
STILL ADJ
CLEAR
CN201 (YEL)
DRUM ON
DRUM PG(X)
DRUM PG(Y)
DRUM BIAS
DRUM ERROR
DRUM FG(Y)
DRUM FG(X)
ORG
WHT
GRY
BRN
(RED)
CN202 (RED)
CAP FG(X)
CAP FG(Y)
CAP ERROR
CAP BIAS
CAP CW/CCW
CAP ON
CN112 (RED)
DUB SW
STEP SW
TO FT-4 C BOARD CN002
TP205

ERVO/SYSTEM CONTROL), MD-8B (MOTOR DRIVE), LS-9 (LOADING SW), RS-11A (REEL SENSOR), LD-1 (TAPE SENSOR), TE-1A (TAPE END SENSOR), TE-2A (TAPE END SENSOR), MS-4 (MODE SW) PRINTED WIRING BOARD

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |

. SS-38M BOARD: 2000 series, MD-8B BOARD: 4000 series, LS-9 BOARD: 4000 series, RS-11A BOARD: 4500 series, LD-1 BOARD: 4600 series, TE-1A BOARD: 4700 series, TE-2A BOARD: 4800 series, MS-4 BOARD: 5000 series–

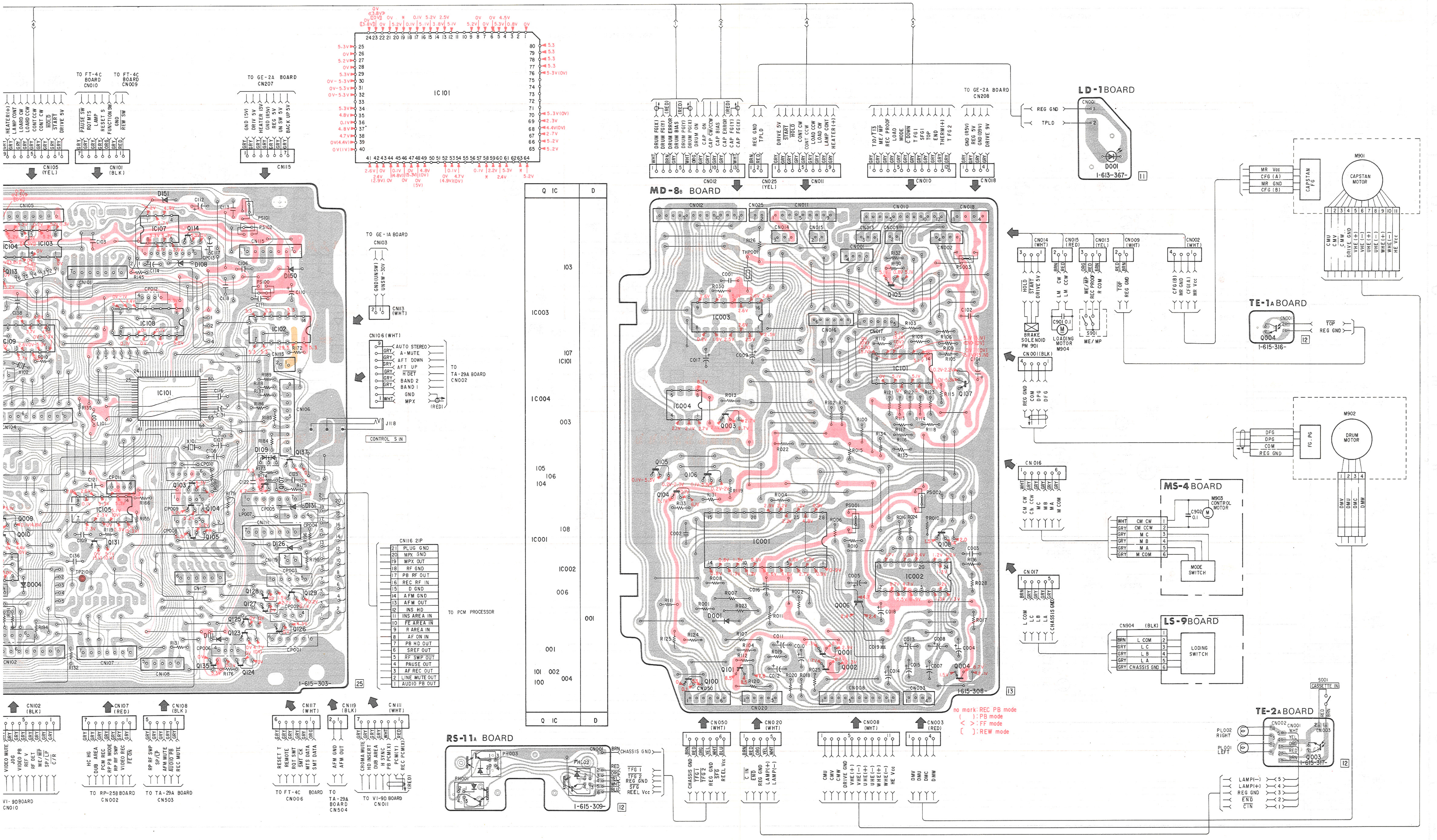
lodel


SS-38M BOARD
no mark : REC/PB mode
( ) : PB mode
< > : CUE mode
[ ] : REVIEW mode
(( )) : PB PAUSE mode
≪ ≫ : THREADING
[[ ]] : EJECT
* : can not be measured
IC Q D ADJ TP
TO VI-9D BOARD CN014
TO VI-9D BOARD CN001
TO FT-4C BOARD CN010
TO FT-4C BOARD CN009
TO GE-2A BOARD CN207
TO GE-1A BOARD CN103
TO TA-29A BOARD CN002
TO PCM PROCESSOR
CONTROL S IN
IC101
1-615-303-
MD-8B BOARD
RS-11A BOARD
1-615-309-
TO FT-4C BOARD CN002
TO VI-9D BOARD CN012
TO CHECK IN
TO VI-9D BOARD CN010
TO RP-25B BOARD CN002
TO TA-29A BOARD CN503
TO FT-4C BOARD CN006
TO TA-29A BOARD CN504
TO VI-9D BOARD CN011

PE END SENSOR), TE-2A (TAPE END SENSOR), MS-4 (MODE SW) PRINTED WIRING BOARD

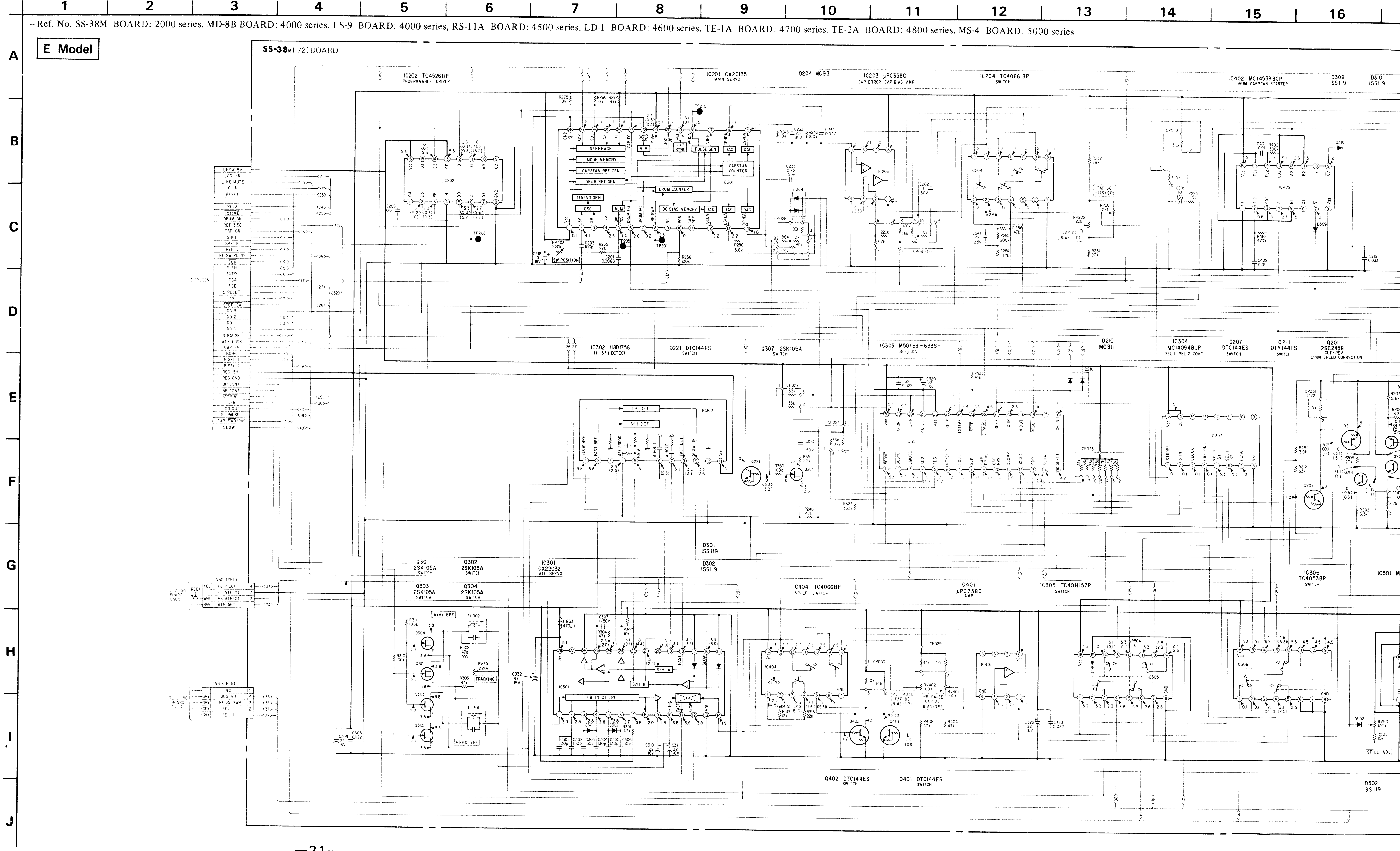
10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25

700 series, TE-2A BOARD: 4800 series, MS-4 BOARD: 5000 series–


IC101
MD-8B BOARD
LD-1 BOARD
TE-1A BOARD
MS-4 BOARD
LS-9 BOARD
TE-2A BOARD
RS-11A BOARD
M901 CAPSTAN MOTOR
M902 DRUM MOTOR
Q IC D
1-615-303-
1-615-308-
1-615-309-
1-613-367-
1-615-316-
1-615-317-
TO PCM PROCESSOR
no mark: REC PB mode
( ): PB mode
< >: FF mode
[ ]: REW mode

SS-38M (SERVO/SYSTEM CONTROL), MD-8B (MOTOR DRIVE), LS-9 (LOADING SW), RS-11A (REEL SENSOR), LD-1 (TAPE SENSOR), TE-1A (TAPE END SENSOR), TE-2A (TAPE END SENSOR), MS-4 (MODE SW) SCHEMATIC DIAGRAM

–Ref. No. SS-38M BOARD: 2000 series, MD-8B BOARD: 4000 series, LS-9 BOARD: 4000 series, RS-11A BOARD: 4500 series, LD-1 BOARD: 4600 series, TE-1A BOARD: 4700 series, TE-2A BOARD: 4800 series, MS-4 BOARD: 5000 series–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A
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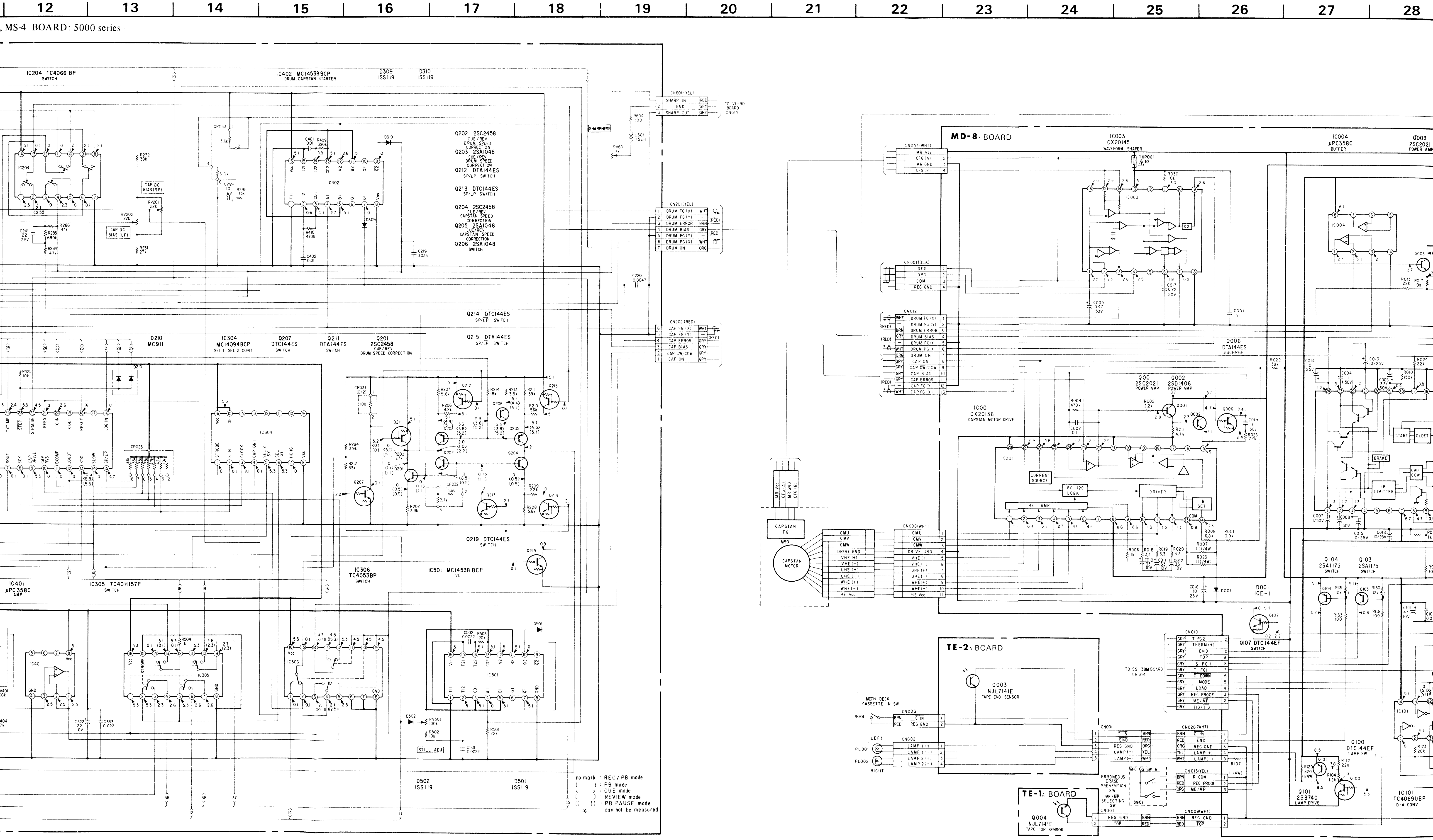
C
D
E
F
G
H
I
J
E Model
SS-38 (1/2) BOARD
IC202 TC4526BP PROGRAMABLE DRIVER
IC201 CX20135 MAIN SERVO
D204 MC931
IC203 μPC358C CAP ERROR CAP BIAS AMP
IC204 TC4066BP SWITCH
IC402 MC14538BCP DRUM, CAPSTAN STARTER
D309 1SS119
D310 1SS119
INTERFACE
MODE MEMORY
CAPSTAN REF GEN
DRUM REF GEN
TIMING GEN
OSC
DRUM COUNTER
DC BIAS MEMORY
PULSE GEN
CAPSTAN COUNTER
DAC
TP210
TP208
TP201
TP202
SW POSITION
UNSW 5V
JOG IN
LINE MUTE
X IN
RESET
RFEX
TXTIME
DRUM ON
REF 3.58
CAP ON
SREF
SP/LP
REF V
RF SW PULSE
SCK
SI
SO
TSA
TSB
S RESET
CS
STEP SW
DD 3
DD 2
DD 1
DD 0
S PAUSE
ATF LOCK
CAP FG
HCH3
P SEL 1
P SEL 2
REG 5V
REG GND
BP CONT
BP CONT
STEP 10
C/B
JOG OUT
S PAUSE
CAP FWD/RVS
SLOW
TO SYSCON
IC302 H8D1756 1H, 3H DETECT
1H DET
3H DET
Q221 DTC144ES SWITCH
Q307 2SK105A SWITCH
IC303 M50763-633SP SB-μCON
D210 MC911
IC304 MC14094BCP SEL 1, SEL 2 CONT
Q207 DTC144ES SWITCH
Q211 DTA144ES SWITCH
Q201 2SC2458 DRUM SPEED CORRECTION
D301 1SS119
D302 1SS119
Q301 2SK105A SWITCH
Q302 2SK105A SWITCH
Q303 2SK105A SWITCH
Q304 2SK105A SWITCH
IC301 CX22032 ATF SERVO
16kHz BPF
46kHz BPF
FL301
FL302
TRACKING
PB PILOT LPF
S/H A
S/H B
CN301 (YEL)
PB PILOT
PB ATF(Y)
PB ATF(X)
ATF AGC
TO VF-90 BOARD CN001
CN103 (BLK)
NC
JOG VD
RF VA SWP
SEL 2
SEL 1
TO VF-90 BOARD CN101
IC404 TC4066BP SP/LP SWITCH
IC401 μPC358C AMP
IC305 TC40H157P SWITCH
IC306 TC4053BP SWITCH
IC501
CAP DC BIAS (SP)
CAP DC BIAS (LP)
PB PAUSE CAP DC BIAS (LP)
PB PAUSE CAP DC BIAS (SP)
Q402 DTC144ES SWITCH
Q401 DTC144ES SWITCH
D502 1SS119
STILL ADJ
CP022
CP023
CP024
CP028
CP029
CP030
CP031
CP033

E END SENSOR), MS-4 (MODE SW) SCHEMATIC DIAGRAM

, MS-4 BOARD: 5000 series–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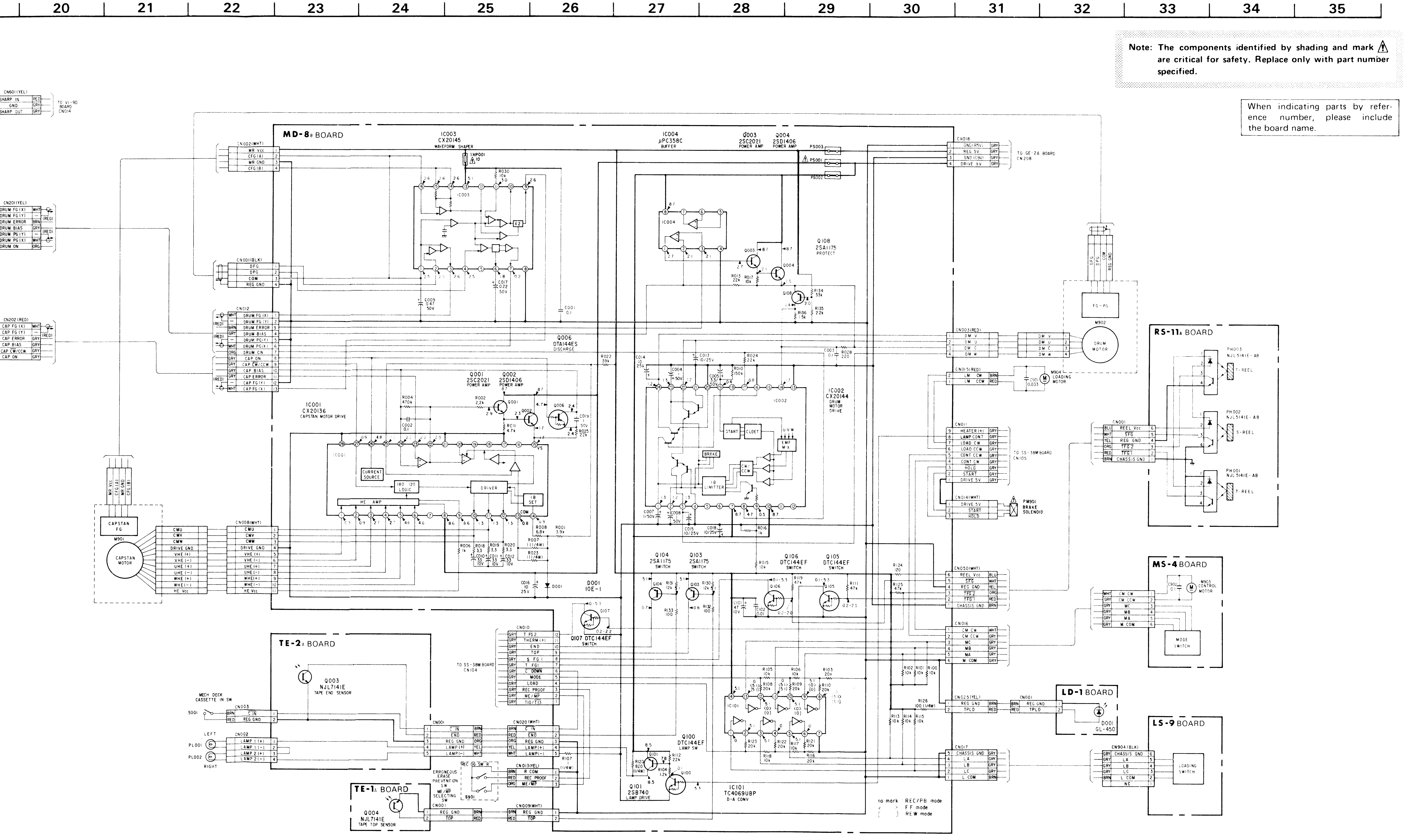
IC204 TC4066 BP SWITCH
IC402 MC14538BCP DRUM, CAPSTAN STARTER
D309 1SS119
D310 1SS119
CN601(YEL)
SHARP IN
GND
SHARP OUT
TO VI-90 BOARD CN614
SHARPNESS
CAP DC BIAS(SP)
CAP DC BIAS(LP)
Q202 2SC2458 CUE/REV DRUM SPEED CORRECTION
Q203 2SA1048 CUE/REV DRUM SPEED CORRECTION
Q212 DTA144ES SP/LP SWITCH
Q213 DTC144ES SP/LP SWITCH
Q204 2SC2458 CUE/REV CAPSTAN SPEED CORRECTION
Q205 2SA1048 CUE/REV CAPSTAN SPEED CORRECTION
Q206 2SA1048 SWITCH
CN201(YEL)
DRUM FG(X)
DRUM FG(Y)
DRUM ERROR
DRUM BIAS
DRUM PG(Y)
DRUM PG(X)
DRUM ON
Q214 DTC144ES SP/LP SWITCH
Q215 DTA144ES SP/LP SWITCH
CN202(RED)
CAP FG(X)
CAP FG(Y)
CAP ERROR
CAP BIAS
CAP CW/CCW
CAP ON
D210 MC911
IC304 MC14094BCP SEL1 SEL2 CONT
Q207 DTC144ES SWITCH
Q211 DTA144ES SWITCH
Q201 2SC2458 CUE/REV DRUM SPEED CORRECTION
Q219 DTC144ES SWITCH
IC401 μPC358C AMP
IC305 TC40H157P SWITCH
IC306 TC4053BP SWITCH
IC501 MC14538 BCP VD
STILL ADJ
D502 1SS119
D501 1SS119
MD-8B BOARD
IC003 CX20145 WAVEFORM SHAPER
IC004 μPC358C BUFFER
Q003 2SC2021 POWER AMP
CN002(WHT)
MR Vcc
CFG(A)
MR GND
CFG(B)
CN001(BLK)
DFG
DPG
COM
REG GND
CN012
DRUM FG(X)
DRUM FG(Y)
DRUM ERROR
DRUM BIAS
DRUM PG(Y)
DRUM PG(X)
DRUM ON
CAP ON
CAP CW/CCW
CAP BIAS
CAP ERROR
CAP FG(Y)
CAP FG(X)
Q006 DTA144ES DISCHRGE
Q001 2SC2021 POWER AMP
Q002 2SD1406 POWER AMP
IC001 CX20136 CAPSTAN MOTOR DRIVE
CURRENT SOURCE
180 120 LOGIC
DRIVER
HE AMP
18 SET
START
CLDET
BRAKE
18 LIMITTER
CAPSTAN FG
M901
CAPSTAN MOTOR
CN008(WHT)
CMU
CMV
CMW
DRIVE GND
VHE(+)
VHE(−)
UHE(+)
UHE(−)
WHE(+)
WHE(−)
HE Vcc
Q104 2SA1175 SWITCH
Q103 2SA1175 SWITCH
D001 10E-1
Q107 DTC144EF SWITCH
TE-2A BOARD
Q003 NJL7141E TAPE END SENSOR
MECH DECK CASSETTE IN SW
S001
CN003
C IN
REG GND
LEFT
PL001
PL002
RIGHT
CN002
LAMP 1(+)
LAMP 1(−)
LAMP 2(+)
LAMP 2(−)
CN001
C IN
END
REG GND
LAMP(+)
LAMP(−)
CN010
T FG 2
THERM(+)
END
TOP
S FG 1
T FG1
C DOWN
MODE
LOAD
REC PROOF
ME/MP
T10/T13
TO SS-38M BOARD CN104
CN020(WHT)
C IN
END
REG GND
LAMP(+)
LAMP(−)
ERRONEOUS ERASE PREVENTION SW
ME/MP SELECTING SW
S901
CN013(YEL)
R COM
REC PROOF
ME/MP
TE-1A BOARD
Q004 NJL7141E TAPE TOP SENSOR
CN001
REG GND
TOP
CN009(WHT)
REG GND
TOP
Q100 DTC144EF LAMP SW
Q101 2SB740 LAMP DRIVE
IC101 TC4069UBP D-A CONV

no mark : REC/PB mode
( ) : PB mode
< > : CUE mode
[ ] : REVIEW mode
(( )) : PB PAUSE mode
* : can not be measured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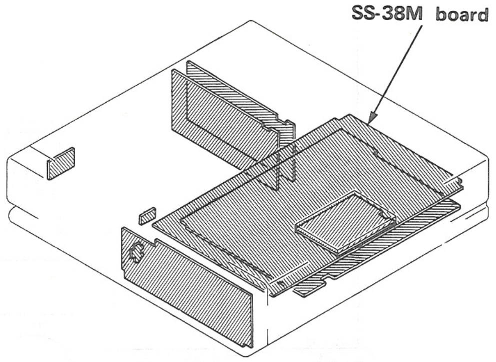
MD-8 BOARD
TE-2 BOARD
TE-1 BOARD
RS-11 BOARD
MS-4 BOARD
LD-1 BOARD
LS-9 BOARD
IC003 CX20145 WAVEFORM SHAPER
IC004 μPC358C BUFFER
Q003 2SC2021 POWER AMP
Q004 2SD1406 POWER AMP
Q108 2SA1175 PROTECT
IC001 CX20136 CAPSTAN MOTOR DRIVE
Q001 2SC2021 POWER AMP
Q002 2SD1406 POWER AMP
Q006 DTA144ES DISCHRGE
IC002 CX20144 DRUM MOTOR DRIVE
D001 10E-1
Q104 2SA1175 SWITCH
Q103 2SA1175 SWITCH
Q106 DTC144EF SWITCH
Q105 DTC144EF SWITCH
Q107 DTC144EF SWITCH
Q100 DTC144EF LAMP SW
Q101 2SB740 LAMP DRIVE
IC101 TC4069UBP D-A CONV
Q003 NJL7141E TAPE END SENSOR
Q004 NJL7141E TAPE TOP SENSOR
CN601(YEL)
TO VI-90 BOARD CN014
CN201(YEL)
CN202(RED)
CN002(WHT)
CN001(BLK)
CN012
CN008(WHT)
CN018
TO GE-2A BOARD CN208
PS003
PS001
PS002
CN003(RED)
CN015(RED)
CN011
TO SS-38M BOARD CN105
CN014(WHT)
PM901 BRAKE SOLENOID
CN050(WHT)
CN016
CN025(YEL)
CN017
CN010
TO SS-38M BOARD CN104
CN020(WHT)
CN013(YEL)
CN009(WHT)
S901
ERRONEOUS ERASE PREVENTION SW
ME/MP SELECTING SW
MECH DECK CASSETTE IN SW
S001
PL001
PL002
LEFT
RIGHT
M901 CAPSTAN MOTOR
CAPSTAN FG
M902 DRUM MOTOR
FG-PG
M904 LOADING MOTOR
PH003 NJL5141E-AB T-REEL
PH002 NJL5141E-AB S-REEL
PH001 NJL5141E-AB T-REEL
M903 CONTROL MOTOR
MODE SWITCH
D001 GL-450
CN904(BLK)
LOADING SWITCH
START
CLDET
BRAKE
IB LIMITTER
EMF MIX
CW/CCW
CURRENT SOURCE
180 120 LOGIC
DRIVER
IB SET
HE AMP
no mark REC/PB mode
< > FF mode
( ) REW mode

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Note (Printed Wiring Board):

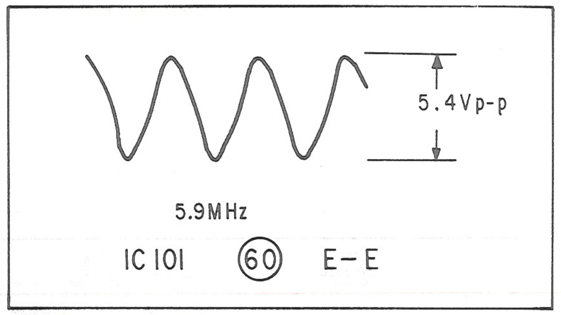
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- 🟥 : B + pattern.
- 🟧 : B − pattern.
- Digital transistor (SS-38M: Q001, 009, 010, 103, 111, 112, 113, 122, 123, 126, 127, 128, 129, 130, 131, 137) transistor with resistors.
  Refe to the SS-38M board schematic diagram for digital transistor.


SS-38M board

Note (Schematic Diagram):

- All capacitors are in μF unless otherwise noted, pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted.
  kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- ⊟ : nonfiammable resistor.
- ⊟ : fusible resistor.
- ☐ : panel disignation.
- ☐ : adjustment for repair.
- ━ : B + bus.
- ╍ : B − bus.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

SS-38MBOARD(SYSCON)

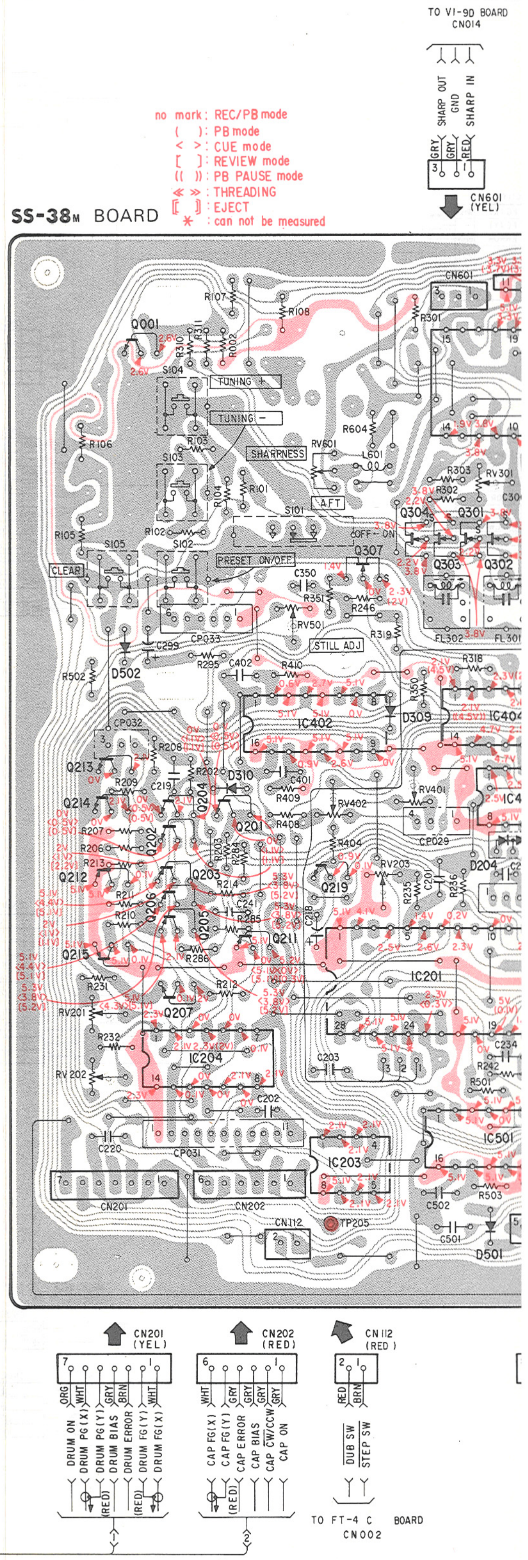

5.4Vp-p
5.9MHz
IC101
(60)
E−E

SS-38M (SERVO/SYSTEM CONTROL), MD-8B (MOTOR DRIVE), LS-9 (LOADING SW), RS-11A (RE

–Ref. No. SS-38M BOARD: 2000 series, MD-8B BOARD: 4000 series, LS-9 BOARD: 4000 series, RS-11A BOARD:

E Model

IC	Q	D	ADJ	TP
		151		
IC302	101			
IC107				
IC104	114			
IC103	001			
IC301				
	112			
		108		
	113			
		150		
	111			
		302 301		
			RV601	
			RV301	
IC108				201
IC202		210		
IC102				
IC109				
	304			
	303 401			
	301			
	307 302			
			RV501	
IC303		502		
IC101	402			
				208
IC402 IC404				
		309		
IC401				
	213			
		310	RV401	
IC306	214 204		RV402	
	201	109		
	137	102		
	202	104		
	103	204		
	212 219 107			
	203 130 104		RV203	
	206			
		131		
	122			
	215 205 105			
IC304 IC105				
	211 118			
IC201	117			
IC112	207 009			
IC305	010	126		
IC111	131			
			RV201	
	221			
				210
IC204				
		004		
	128	005	RV202	
IC203	129			
IC501	127			
IC110	125			
	003 126			
	116	111		
	123			
				205
		501		
	135			
	124			
	151			
IC	Q	D	ADJ	TP


SS-38M BOARD

no mark : REC/PB mode
( ) : PB mode
< > : CUE mode
[ ] : REVIEW mode
(( )) : PB PAUSE mode
≪ ≫ : THREADING
⟦ ⟧ : EJECT
* : can not be measured

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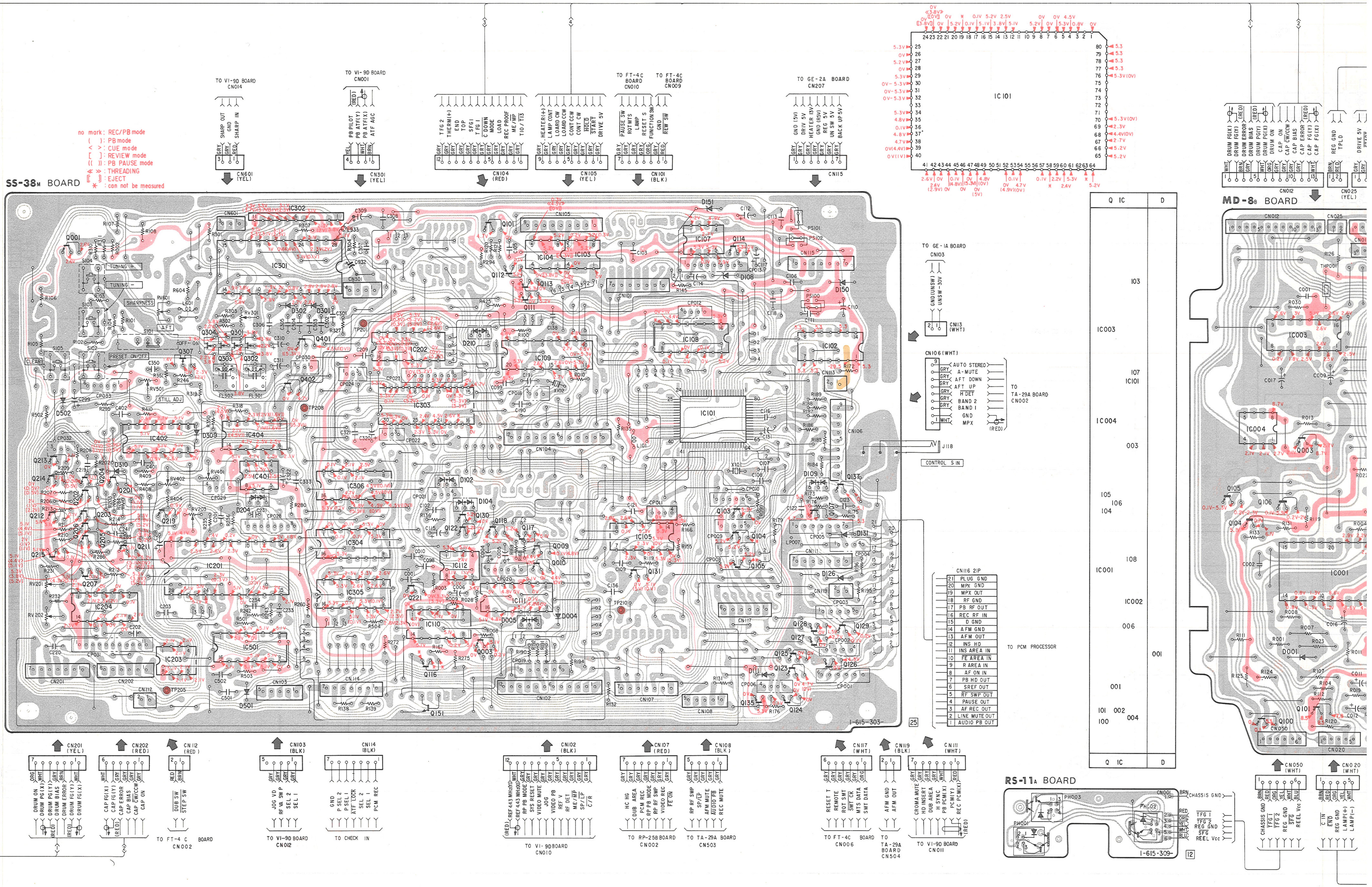
H
I
J
TO VI-9D BOARD
CN014
SHARP OUT
GND
SHARP IN
GRY
GRY
RED
CN601 (YEL)
CN601
Q001
R107
R108
R301
S104
S103
S101
S102
S105
TUNING +
TUNING −
SHARPNESS
AFT
OFF − ON
PRESET ON/OFF
CLEAR
STILL ADJ
RV601
RV301
RV401
RV402
RV203
RV201
RV202
Q301
Q302
Q303
Q304
Q307
D309
D310
D502
IC402
IC401
IC201
IC204
IC203
IC501
Q201
Q203
Q204
Q207
Q211
Q212
Q213
Q214
Q215
CN201
CN202
CN112
TP205
C501
D501
CN201 (YEL)
ORG
WHT
GRY
BRN
WHT
DRUM ON
DRUM PG(X)
DRUM PG(Y)
DRUM BIAS
DRUM ERROR
DRUM FG(Y)
DRUM FG(X)
(RED)
(RED)
CN202 (RED)
WHT
GRY
GRY
GRY
GRY
CAP FG(X)
CAP FG(Y)
CAP ERROR
CAP BIAS
CAP CW/CCW
CAP ON
(RED)
CN112 (RED)
RED
BRN
DUB SW
STEP SW
TO FT-4 C BOARD
CN002

SYSTEM CONTROL), MD-8B (MOTOR DRIVE), LS-9 (LOADING SW), RS-11A (REEL SENSOR), LD-1 (TAPE SENSOR), TE-1A (TAPE END SENSOR), TE-2A (TAPE END SENSOR), MS-4 (MODE SW) PRINTED WIRING BOARD

BOARD: 2000 series, MD-8B BOARD: 4000 series, LS-9 BOARD: 4000 series, RS-11A BOARD: 4500 series, LD-1 BOARD: 4600 series, TE-1A BOARD: 4700 series, TE-2A BOARD: 4800 series, MS-4 BOARD: 5000 series–

IC Q	D	ADJ	TP
	151		
IC302 101			
IC107			
IC104 114			
001 IC103			
IC301			
112	108		
113	150		
111	302 301		
		RV601	
		RV301	
IC108			201
IC202	210		
IC102			
IC109			
304			
303 401			
301			
307 302			
		RV501	
402 IC303	502		
IC101			
			208
IC402 IC404			
	309		
IC401			
213	310	RV401	
214 204 IC306		RV402	
201	109		
137	102		
202	104		
103	204		
212 219 107			
203 130 104		RV203	
206	131		
122			
215 205 105			
IC304			
211 118 IC105			
IC201 117			
207 IC112 009			
IC305 010	126		
IC111 131			
		RV201	
221			
			210
IC204			
	004		
128	005	RV202	
IC203 129			
IC501 127			
IC110 125			
003 126			
116	111		
123			
			205
	501		
135			
124			
151			
IC Q	D	ADJ	TP

no mark : REC/PB mode
( ) : PB mode
< > : CUE mode
[ ] : REVIEW mode
(( )) : PB PAUSE mode
≪ ≫ : THREADING
[[ ]] : EJECT
＊ : can not be measured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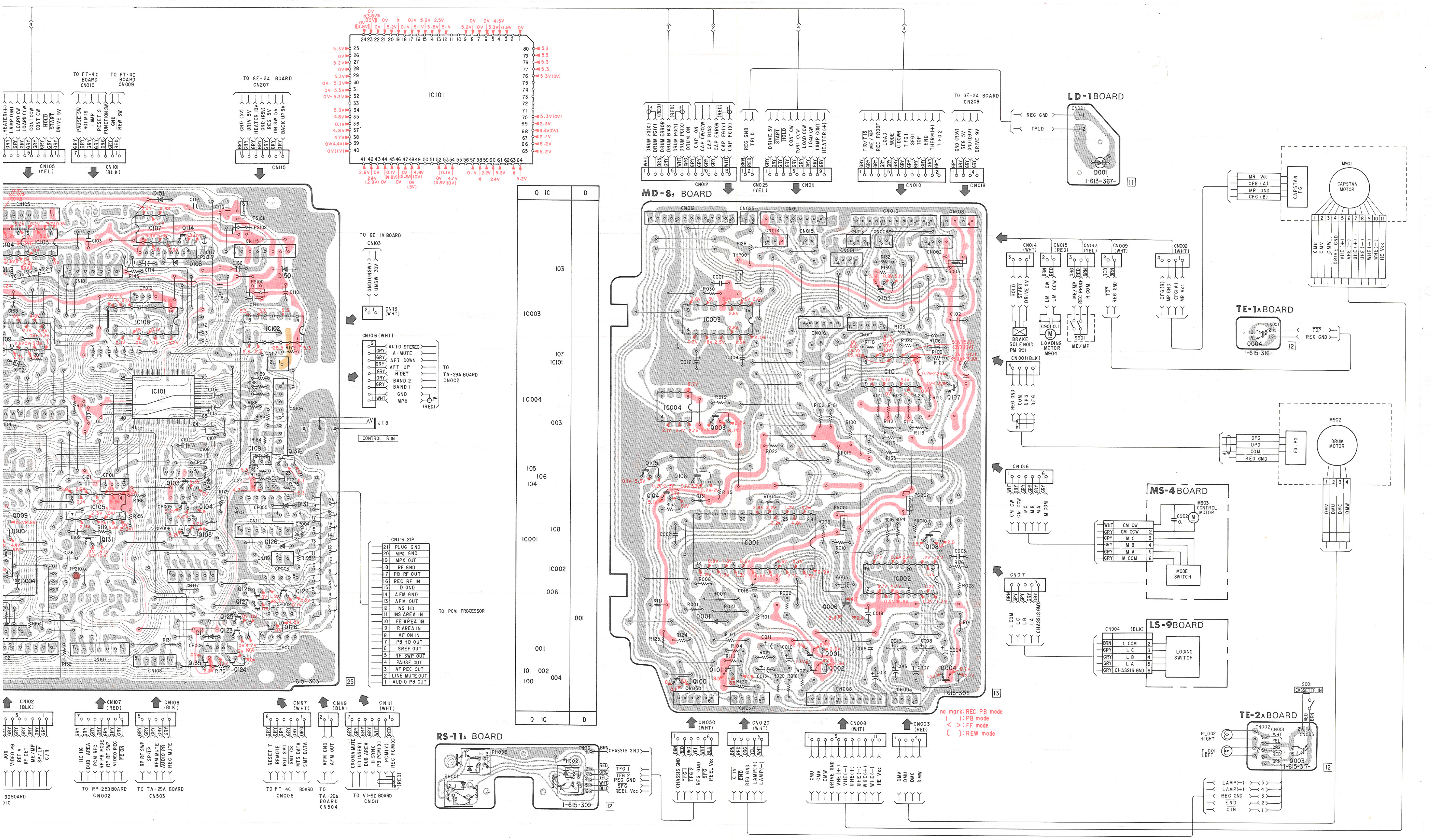
SS-38M BOARD
IC101
TO VI-9D BOARD CN014
TO VI-9D BOARD CN001
TO FT-4C BOARD CN010
TO FT-4C BOARD CN009
TO GE-2A BOARD CN207
CN601 (YEL)
CN301 (YEL)
CN104 (RED)
CN105 (YEL)
CN101 (BLK)
CN115
TO GE-1A BOARD CN103
CN113 (WHT)
CN106 (WHT)
AUTO STEREO
A-MUTE
AFT DOWN
AFT UP
H DET
BAND 2
BAND 1
GND
MPX
TO TA-29A BOARD CN002
J118
CONTROL S IN
CN116 21P
21 PLUG GND
20 MPX GND
19 MPX OUT
18 RF GND
17 PB RF OUT
16 REC RF IN
15 D GND
14 AFM GND
13 AFM OUT
12 INS HD
11 INS AREA IN
10 FE AREA IN
9 R AREA IN
8 AF ON IN
7 PB HD OUT
6 SREF OUT
5 RF SWP OUT
4 PAUSE OUT
3 AF REC OUT
2 LINE MUTE OUT
1 AUDIO PB OUT
TO PCM PROCESSOR
25
1-615-303-
CN201 (YEL)
CN202 (RED)
CN112 (RED)
TO FT-4C BOARD CN002
CN103 (BLK)
TO VI-9D BOARD CN012
CN114 (BLK)
TO CHECK IN
CN102 (BLK)
TO VI-9D BOARD CN010
CN107 (RED)
TO RP-25B BOARD CN002
CN108 (BLK)
TO TA-29A BOARD CN503
CN117 (WHT)
TO FT-4C BOARD CN006
CN119 (BLK)
TO TA-29A BOARD CN504
CN111 (WHT)
TO VI-9D BOARD CN011
MD-8B BOARD
CN012
CN025
CN050 (WHT)
CN020 (WHT)
RS-11A BOARD
CN001
PH003
PH002
PH001
CHASSIS GND
TFG 1
TFG 2
REG GND
SFG
REEL Vcc
1-615-309-
12

Q IC	D
103	
IC003	
107 IC101	
IC004	
003	
105 106 104	
108	
IC001	
IC002	
006	
	001
001	
101 002	
100 004	
Q IC	D

PE END SENSOR), TE-2A (TAPE END SENSOR), MS-4 (MODE SW) PRINTED WIRING BOARD

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

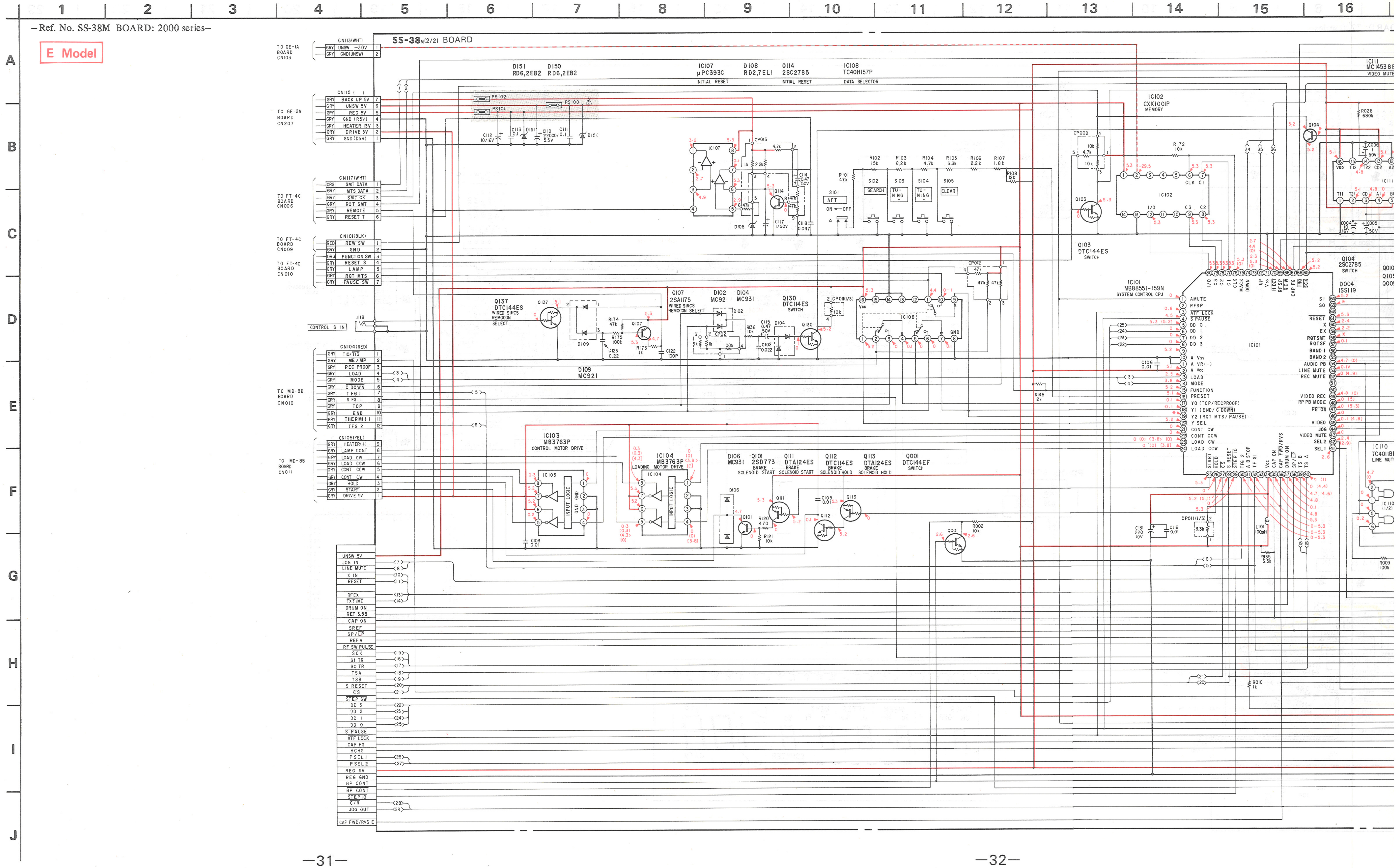
700 series, TE-2A BOARD: 4800 series, MS-4 BOARD: 5000 series–


IC101
TO FT-4C BOARD CN010
TO FT-4C BOARD CN009
TO GE-2A BOARD CN207
CN105 (YEL)
CN101 (BLK)
CN115
TO GE-1A BOARD CN103
CN113 (WHT)
CN106 (WHT)
AUTO STEREO
A-MUTE
AFT DOWN
AFT UP
H DET
BAND 2
BAND 1
GND
MPX
TO TA-29A BOARD CN002
J118
CONTROL S IN
CN116 21P
PLUG GND
MPX GND
MPX OUT
RF GND
PB RF OUT
REC RF IN
D GND
AFM GND
AFM OUT
INS AREA IN
INS HD
FE AREA IN
R AREA IN
AF ON IN
PB HD OUT
SREF OUT
RF SWP OUT
PAUSE OUT
AF REC OUT
LINE MUTE OUT
AUDIO PB OUT
TO PCM PROCESSOR
1-615-303-
CN102 (BLK)
CN107 (RED)
CN108 (BLK)
CN117 (WHT)
CN119 (BLK)
CN111 (WHT)
TO RP-25B BOARD CN002
TO TA-29A BOARD CN503
TO FT-4C BOARD CN006
TO TA-29A BOARD CN504
TO VI-9D BOARD CN011
Q IC D
RS-11A BOARD
CHASSIS GND
TFG 1
TFG 2
REG GND
SFG
REEL Vcc
1-615-309-
MD-8B BOARD
TO GE-2A BOARD CN208
CN012
CN025 (YEL)
CN011
CN010
CN018
IC001
IC002
IC003
IC004
IC101
1-615-308-
CN050 (WHT)
CN020 (WHT)
CN008 (WHT)
CN003 (RED)
no mark: REC PB mode
( ): PB mode
< >: FF mode
[ ]: REW mode
LD-1 BOARD
REG GND
TPLD
D001
1-613-367-
M901
CAPSTAN MOTOR
CAPSTAN FG
MR Vcc
CFG (A)
MR GND
CFG (B)
TE-1A BOARD
Q004
TOP
REG GND
1-615-316-
CN014 (WHT)
CN015 (RED)
CN013 (YEL)
CN009 (WHT)
CN002 (WHT)
BRAKE SOLENOID PM 901
LOADING MOTOR M904
S901 ME/MP
CN001 (BLK)
M902
DRUM MOTOR
DFG
DPG
COM
REG GND
CN016
MS-4 BOARD
M903 CONTROL MOTOR
MODE SWITCH
CN017
LS-9 BOARD
CN904 (BLK)
LODING SWITCH
S001 CASSETTE IN
TE-2A BOARD
PL002 RIGHT
PL001 LEFT
Q003
1-615-317-
LAMP(-)
LAMP(+)
REG GND
END
CTN

SS-38M (SERVO/SYSTEM CONTROL) SCHEMATIC DIAGRAM

–Ref. No. SS-38M BOARD: 2000 series–

E Model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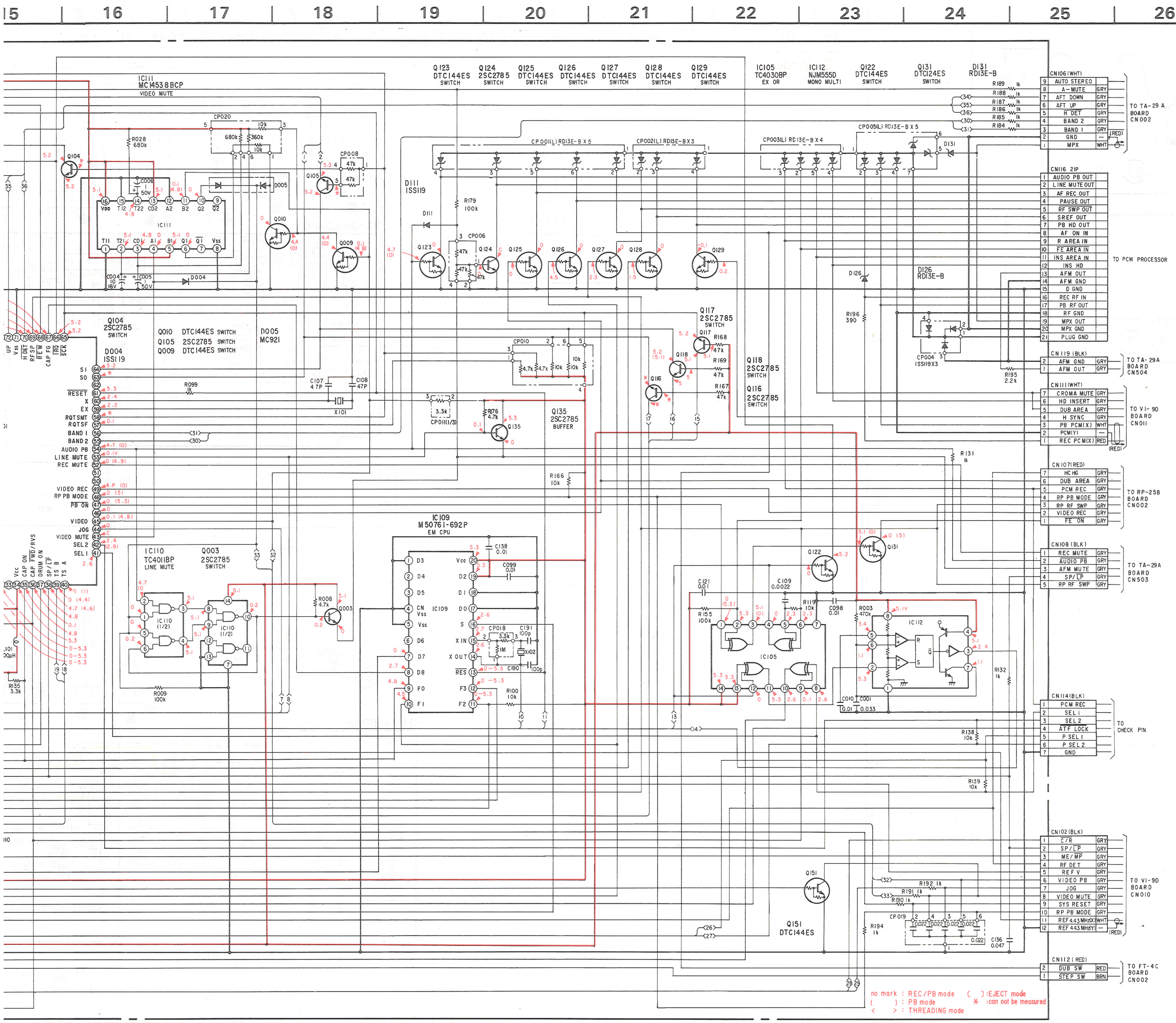
16
A
B
C
D
E
F
G
H
I
J
SS-38M(2/2) BOARD
TO GE-1A BOARD CN103
CN113(WHT)
UNSW -30V
GND(UNSW)
TO GE-2A BOARD CN207
CN115
BACK UP 5V
UNSW 5V
REG 5V
GND (R5V)
HEATER 13V
DRIVE 5V
GND (D5V)
TO FT-4C BOARD CN006
CN117(WHT)
SMT DATA
MTS DATA
SMT CK
RQT SMT
REMOTE
RESET T
TO FT-4C BOARD CN009
TO FT-4C BOARD CN010
CN101(BLK)
REW SW
GND
FUNCTION SW
RESET S
LAMP
RQT MTS
PAUSE SW
CONTROL S IN
J118
TO MD-8B BOARD CN010
CN104(RED)
TIO/TI3
ME / MP
REC PROOF
LOAD
MODE
C DOWN
T FG I
S FG I
TOP
END
THERM(+)
TFG 2
TO MD-8B BOARD CN011
CN105(YEL)
HEATER(+)
LAMP CONT
LOAD CW
LOAD CCW
CONT CCW
CONT CW
HOLD
START
DRIVE 5V
D151 RD6,2EB2
D150 RD6,2EB2
IC107 μPC393C INITIAL RESET
D108 RD2,7EL1
Q114 2SC2785 INITIAL RESET
IC108 TC40H157P DATA SELECTOR
IC102 CXK1001P MEMORY
IC111 MC14538B VIDEO MUTE
PS102
PS101
PS100
S101 AFT ON OFF
S102 SEARCH
S103 TUNING
S104 TUNING
S105 CLEAR
Q103 DTC144ES SWITCH
Q104 2SC2785 SWITCH
D004 1SS119
Q137 DTC144ES WIRED SIRCS REMOCON SELECT
Q107 2SA1175 WIRED SIRCS REMOCON SELECT
D102 MC921
D104 MC931
Q130 DTC144ES SWITCH
D109 MC921
IC101 MB88551-159N SYSTEM CONTROL CPU
IC103 MB3763P CONTROL MOTOR DRIVE
IC104 MB3763P LOADING MOTOR DRIVE
INPUT LOGIC
D106 MC931
Q101 2SD773 BRAKE SOLENOID START
Q111 DTA124ES BRAKE SOLENOID START
Q112 DTC114ES BRAKE SOLENOID HOLD
Q113 DTA124ES BRAKE SOLENOID HOLD
Q001 DTC144EF SWITCH
IC110 TC4011BP LINE MUTE
AMUTE
RFSP
ATF LOCK
S PAUSE
DD 0
DD 1
DD 2
DD 3
A Vss
A VR(-)
A Vcc
LOAD
MODE
FUNCTION
PRESET
Y0 (TOP/RECPROOF)
Y1 (END/C DOWN)
Y2 (RQT MTS/PAUSE)
Y SEL
CONT CW
CONT CCW
LOAD CW
LOAD CCW
RESET
RQT SMT
RQT SF
BAND 1
BAND 2
AUDIO PB
LINE MUTE
REC MUTE
VIDEO REC
RP PB MODE
PB ON
VIDEO
JOG
VIDEO MUTE
SEL 2
SEL 1
UNSW 5V
JOG IN
LINE MUTE
X IN
RESET
RFEX
TXTIME
DRUM ON
REF 3.58
CAP ON
SREF
SP/LP
REF V
RF SW PULSE
SCK
SI TR
SO TR
TSA
TSB
S RESET
CS
STEP SW
DD 3
DD 2
DD 1
DD 0
S PAUSE
ATF LOCK
CAP FG
HCHG
PSEL 1
PSEL 2
REG 5V
REG GND
BP CONT
BP CONT
STEP 10
C/R
JOG OUT
CAP FWD/RVS E


15
16
17
18
19
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21
22
23
24
25
26
27
28
29
30
31
IC111 MC14538BCP VIDEO MUTE
Q104 2SC2785 SWITCH
D004 ISS119
Q010 DTC144ES SWITCH
Q105 2SC2785 SWITCH
Q009 DTC144ES SWITCH
D005 MC921
Q123 DTC144ES SWITCH
Q124 2SC2785 SWITCH
Q125 DTC144ES SWITCH
Q126 DTC144ES SWITCH
Q127 DTC144ES SWITCH
Q128 DTC144ES SWITCH
Q129 DTC144ES SWITCH
IC105 TC4030BP EX OR
IC112 NJM555D MONO MULTI
Q122 DTC144ES SWITCH
Q131 DTC124ES SWITCH
D131 RD13E-B
D111 ISS119
CP001(L) RD13E-B X 5
CP002(L) RD13E-B X 3
CP003(L) RD13E-B X 4
CP005(L) RD13E-B X 5
D126 RD13E-B
CP004 ISS119X3
Q117 2SC2785 SWITCH
Q118 2SC2785 SWITCH
Q116 2SC2785 SWITCH
Q135 2SC2785 BUFFER
X101
IC109 M50761-692P EM CPU
IC110 TC4011BP LINE MUTE
Q003 2SC2785 SWITCH
Q151 DTC144ES
CN106 (WHT)
9 AUTO STEREO
8 A-MUTE GRY
7 AFT DOWN GRY
6 AFT UP GRY
5 H DET GRY
4 BAND 2 GRY
3 BAND 1 GRY
2 GND —
1 MPX WHT
(RED)
TO TA-29 A BOARD CN002
CN116 21P
1 AUDIO PB OUT
2 LINE MUTE OUT
3 AF REC OUT
4 PAUSE OUT
5 RF SWP OUT
6 SREF OUT
7 PB HD OUT
8 AF ON IN
9 R AREA IN
10 FE AREA IN
11 INS AREA IN
12 INS HD
13 AFM OUT
14 AFM GND
15 D GND
16 REC RF IN
17 PB RF OUT
18 RF GND
19 MPX OUT
20 MPX GND
21 PLUG GND
TO PCM PROCESSOR
CN119 (BLK)
2 AFM GND GRY
1 AFM OUT GRY
TO TA-29A BOARD CN504
CN111 (WHT)
7 CROMA MUTE GRY
6 HD INSERT GRY
5 DUB AREA GRY
4 H SYNC GRY
3 PB PCM(X) WHT
2 PCM(Y) —
1 REC PCM(X) RED
(RED)
TO VI-9D BOARD CN011
CN107 (RED)
7 HC HG GRY
6 DUB AREA GRY
5 PCM REC GRY
4 RP PB MODE GRY
3 RP RF SWP GRY
2 VIDEO REC GRY
1 FE ON GRY
TO RP-25B BOARD CN002
CN108 (BLK)
1 REC MUTE GRY
2 AUDIO PB GRY
3 AFM MUTE GRY
4 SP/LP GRY
5 RP RF SWP GRY
TO TA-29A BOARD CN503
CN114 (BLK)
1 PCM REC
2 SEL 1
3 SEL 2
4 ATF LOCK
5 P SEL 1
6 P SEL 2
7 GND
TO CHECK PIN
CN102 (BLK)
1 C/R GRY
2 SP/LP GRY
3 ME/MP GRY
4 RF DET GRY
5 REF V GRY
6 VIDEO PB GRY
7 JOG GRY
8 VIDEO MUTE GRY
9 SYS RESET GRY
10 RP PB MODE GRY
11 REF 4.43 MHz(X) WHT
12 REF 4.43 MHz(Y) —
(RED)
TO VI-9D BOARD CN010
CN112 (RED)
2 DUB SW RED
1 STEP SW BRN
TO FT-4C BOARD CN002
SI
SO
RESET
X
EX
RQTSMT
RQTSF
BAND 1
BAND 2
AUDIO PB
LINE MUTE
REC MUTE
VIDEO REC
RP PB MODE
PB ON
VIDEO
JOG
VIDEO MUTE
SEL 2
SEL 1

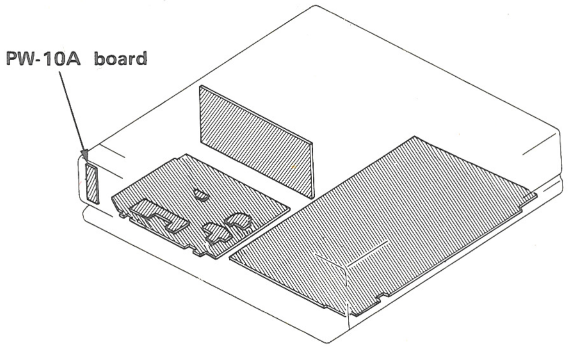
no mark : REC/PB mode   [ ] :EJECT mode
( ) : PB mode   ✳ :can not be measured
< > : THREADING mode

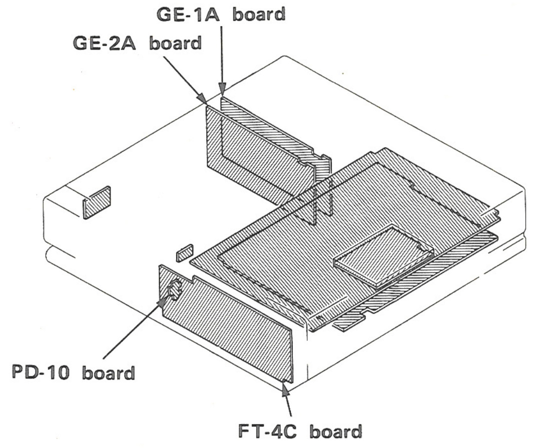
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Note (Printed Wiring Board):

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- 🟥 : B + pattern.
- 🟧 : B – pattern.
- Digital transistor (FT-4C: Q001, 002, GE-2A: Q210, 211, 212) transistor with resistors.
  Refer to the FT-4C, GE-2A boards schematic diagram for digital transistor.

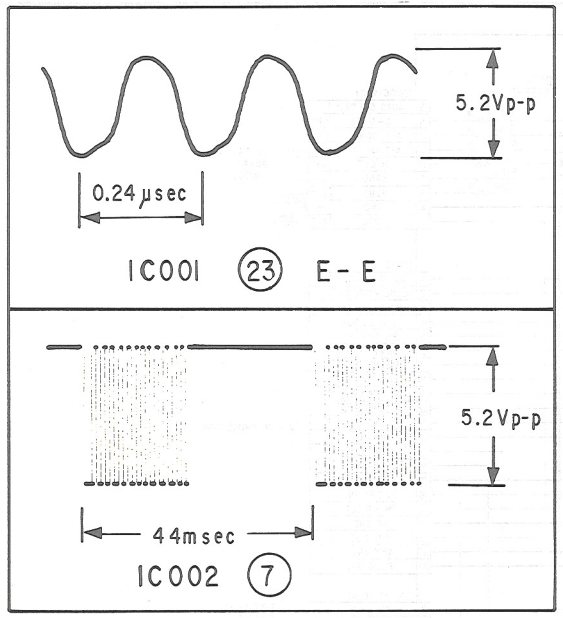

PW-10A board


GE-1A board
GE-2A board
PD-10 board
FT-4C board

Note (Schematic Diagram):

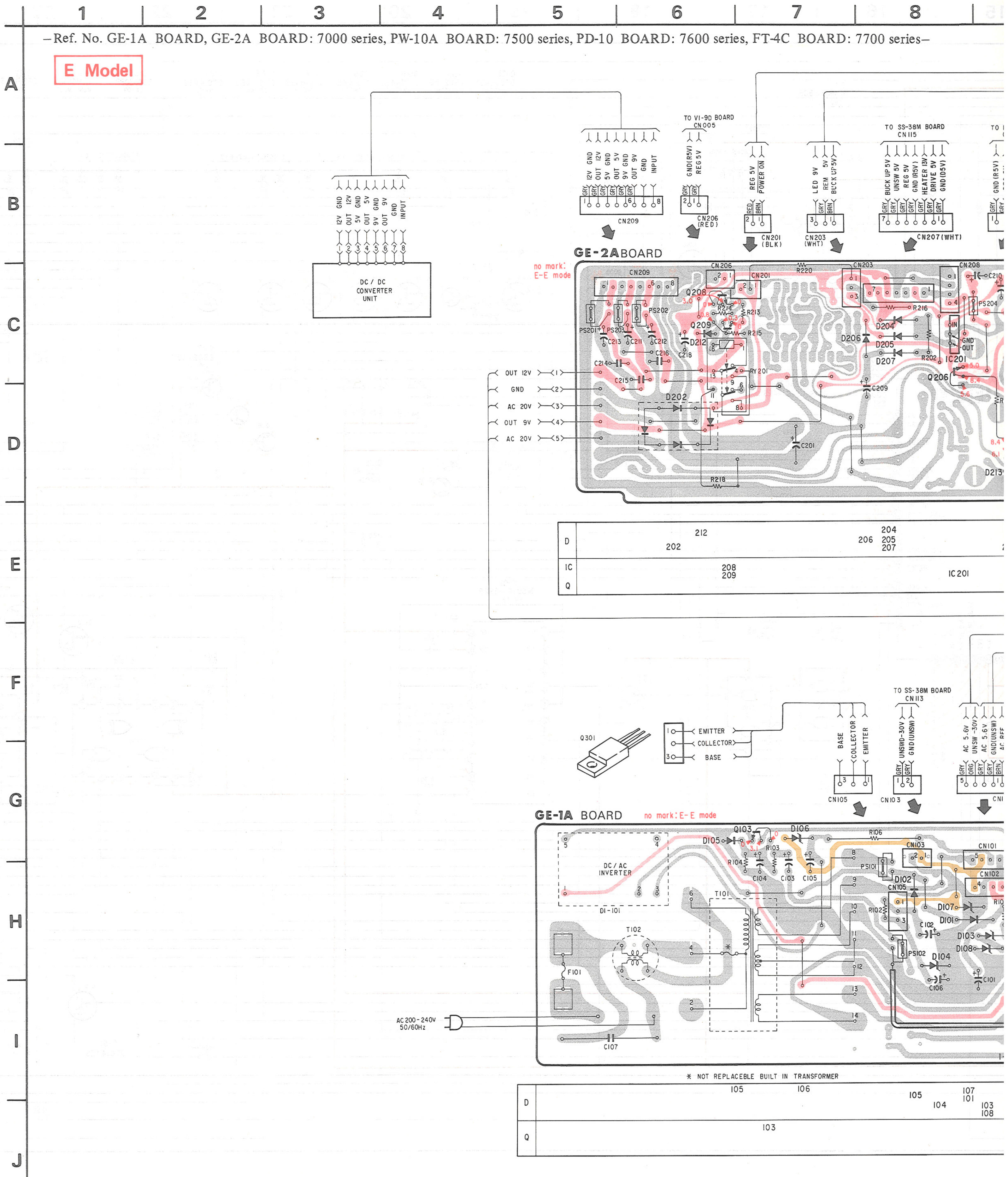
- All capacitors are in μF unless otherwise noted, pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted.
  kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- —▭— : nonfiammable resistor.
- —▭— : fusible resistor.
- ☐ : panel disignation.
- ━━ : B + bus.
- ‐ ‐ ‐ : B – bus.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

FT-4c BOARD



GE-1A (POWER), GE-2A (POWER), PW-10A (POWER, EJECT SW), PD-10 (REMOCON LIGHT RECEPTOR), FT-4C (FUNCTION SW) PRINT

–Ref. No. GE-1A BOARD, GE-2A BOARD: 7000 series, PW-10A BOARD: 7500 series, PD-10 BOARD: 7600 series, FT-4C BOARD: 7700 series–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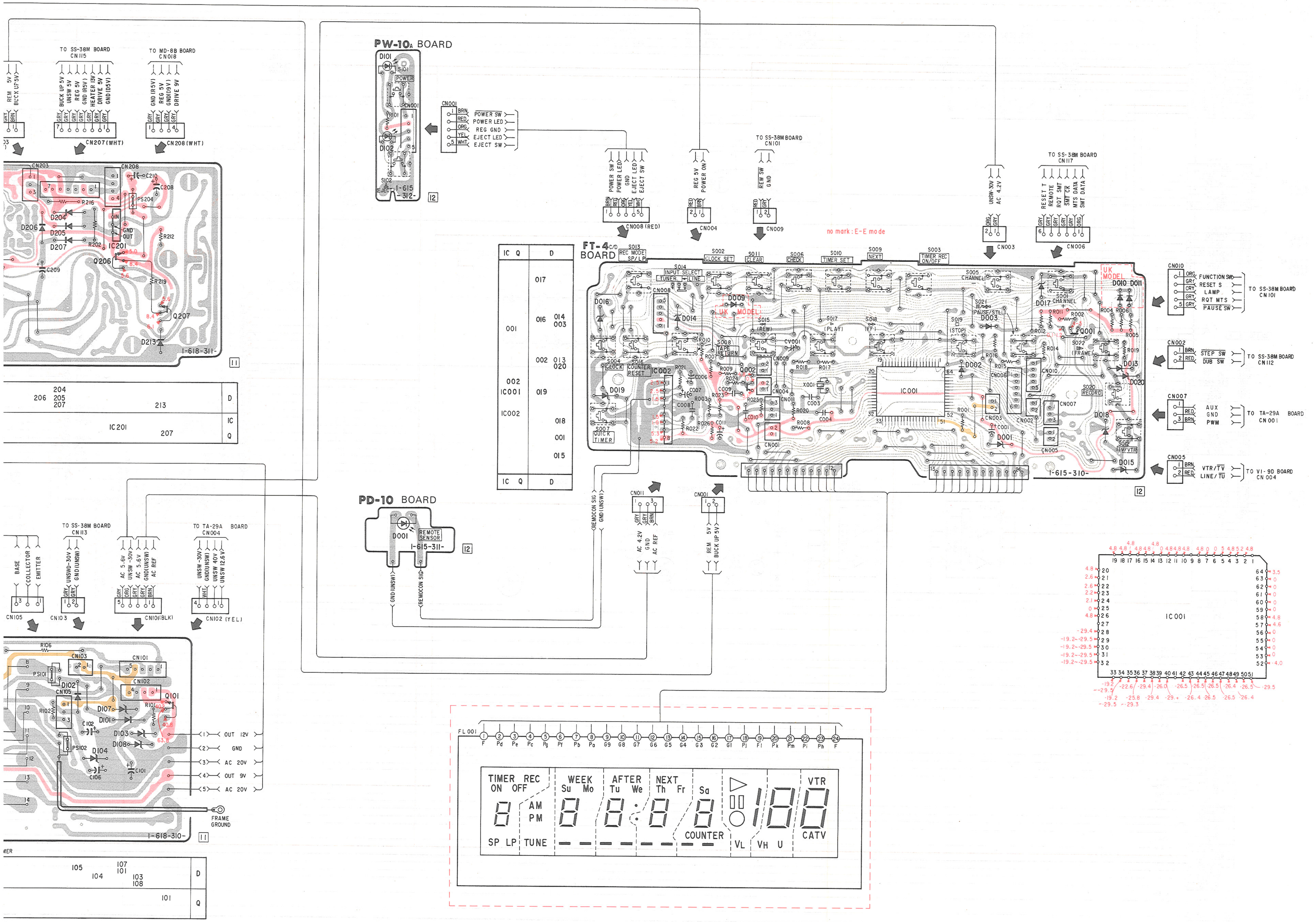
I
J
E Model
DC / DC CONVERTER UNIT
TO VI-90 BOARD CN005
TO SS-38M BOARD CN115
GE-2A BOARD
no mark: E-E mode
CN209
CN206 (RED)
CN201 (BLK)
CN203 (WHT)
CN207 (WHT)
CN208
OUT 12V
GND
AC 20V
OUT 9V
AC 20V
PS201
PS202
PS203
PS204
Q208
Q209
Q206
D202
D204
D205
D206
D207
D213
IC201
RY201
R218
R220
D
IC
Q
202
212
208
209
206
204
205
207
IC201
TO SS-38M BOARD CN113
Q301
EMITTER
COLLECTOR
BASE
CN105
CN103
GE-1A BOARD
no mark: E-E mode
DC / AC INVERTER
DI-101
T101
T102
F101
Q103
D105
D106
D101
D102
D103
D104
D107
D108
PS101
PS102
C101
C102
C103
C104
C105
C106
C107
R102
R103
R104
R106
CN101
CN102
CN103
AC 200-240V 50/60Hz
＊ NOT REPLACEBLE BUILT IN TRANSFORMER
105
106
104
107
101
103
108

IC (FUNCTION SW) PRINTED WIRING BOARD

8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23

ARD: 7700 series–


PW-10A BOARD
D101
S101
POWER
CN001
D102
S102 EJECT
1-615-312-
CN001
BRN POWER SW
RED POWER LED
ORG REG GND
YEL EJECT LED
WHT EJECT SW
TO SS-38M BOARD CN115
BUCK UP 5V
UNSW 5V
REG 5V
GND (R5V)
HEATER (5V)
DRIVE 5V
GND (D5V)
CN207 (WHT)
TO MD-8B BOARD CN018
GND (R5V)
REG 5V
GND (D9V)
DRIVE 9V
CN208 (WHT)
REM 5V
BUCK UP 5V
CN203
CN208
C210
C208
PS204
R216
D204
D206
D205
D207
R202
IC201
GND
OUT
IN
R212
Q206
C209
R219
Q207
D213
1-618-311-
204 206 205 207 213 IC201 207
D
IC
Q
POWER SW
POWER LED
GND
EJECT LED
EJECT SW
CN008 (RED)
REG 5V
POWER ON
CN004
TO SS-38M BOARD CN101
REW SW
GND
CN009
no mark : E-E mode
UNSW -30V
AC 4.2V
CN003
TO SS-38M BOARD CN117
RESET T
REMOTE
RQT SMT
SMT CK
MTS DATA
SMT DATA
CN006
IC Q D
017
001
016 014 003
002 013 020
002 IC001 019
IC002
018
001
015
FT-4C/D BOARD
S013 REC MODE SP/LP
S002 CLOCK SET
S011 CLEAR
S006 CHECK
S010 TIMER SET
S009 NEXT
S003 TIMER REC ON/OFF
S014 INPUT SELECT TUNER LINE
S005 CHANNEL
UK MODEL
D010 D011
D016
D009
D014
S015 REW
S017 PLAY
S018 FF
S019 STOP
S021 PAUSE/STILL
D003
D017
S001 CHANNEL
S022 FRAME
Q001
D013
D020
S004 CLOCK
S016 COUNTER RESET
S008 TAPE RETURN
IC002
Q002
X001
IC001
D019
S007 QUICK TIMER
S020 RECORD
D018
D001
S012 TV/VTR
D015
1-615-310-
CN010
FUNCTION SW
RESET S
LAMP
RQT MTS
PAUSE SW
TO SS-38M BOARD CN101
CN002
STEP SW
DUB SW
TO SS-38M BOARD CN112
CN007
AUX
GND
PWM
TO TA-29A BOARD CN001
CN005
VTR/TV
LINE/TU
TO VI-9D BOARD CN004
PD-10 BOARD
D001
REMOTE SENSOR
1-615-311-
GND (UNSW)
REMOCON SIG
CN011
AC 4.2V
GND
AC REF
CN001
REM 5V
BUCK UP 5V
TO SS-38M BOARD CN113
BASE
COLLECTOR
EMITTER
UNSW -30V
GND (UNSW)
CN105
CN103
AC 5.6V
UNSW -30V
AC 5.6V
GND (UNSW)
AC REF
CN101 (BLK)
TO TA-29A BOARD CN004
UNSW -30V
GND (UNSW)
UNSW 40V
UNSW 12.6V
CN102 (YEL)
R106
PS101
CN103
CN101
CN102
D102
CN105
Q101
R102
D107
D101
C102
D103
D108
PS102
D104
C106
C101
OUT 12V
GND
AC 20V
OUT 9V
AC 20V
FRAME GROUND
1-618-310-
105 104 107 101 103 108 101
D
Q
IC001
FL001
F Pd Pe Pc Pg Pf Pb Pa G9 G8 G7 G6 G5 G4 G3 G2 G1 Pj Pl Pk Pm Pi Ph F
TIMER REC ON OFF
AM PM
SP LP TUNE
WEEK Su Mo
AFTER Tu We
NEXT Th Fr
Sa
COUNTER
VL VH U
VTR
CATV

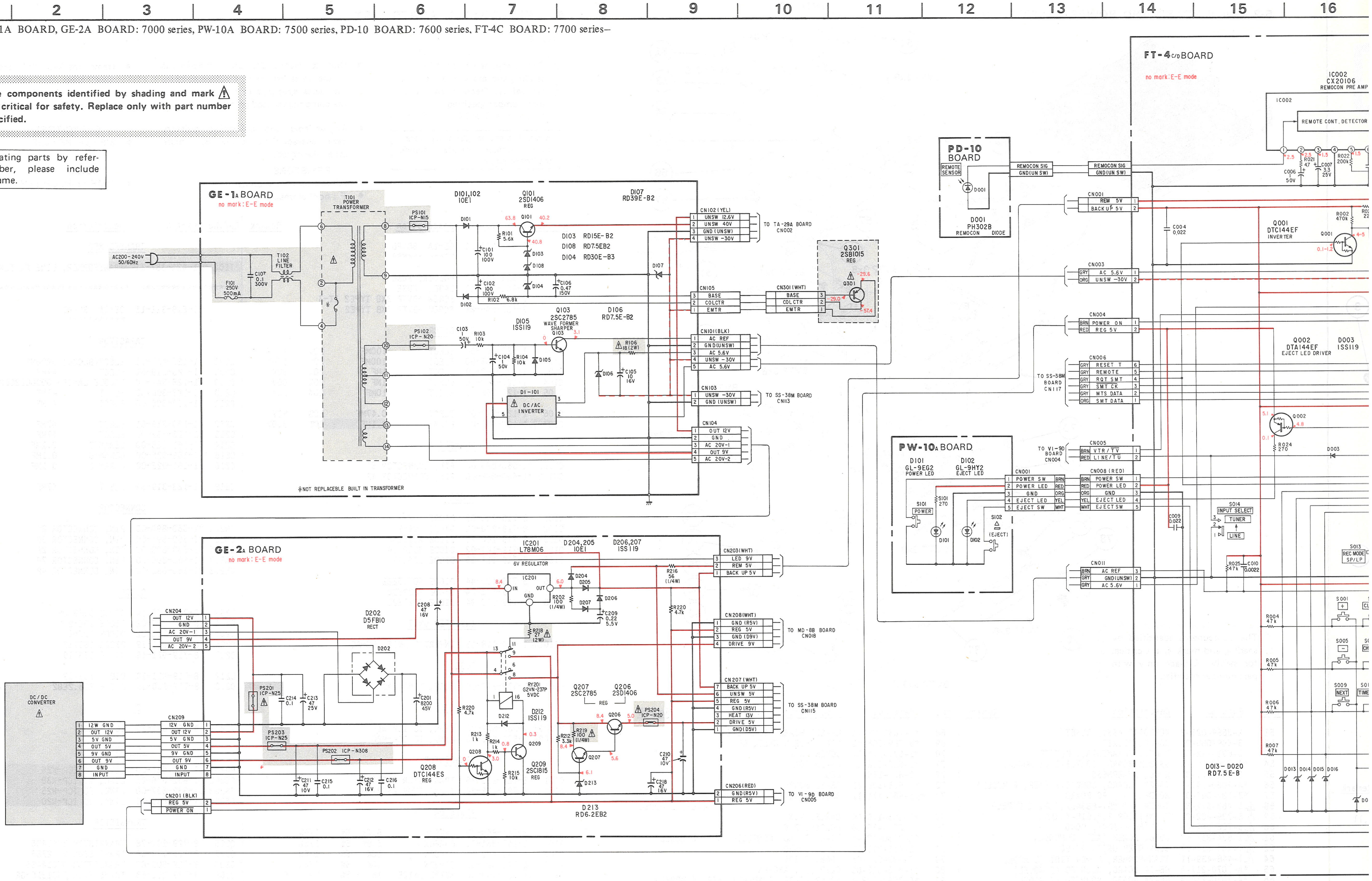
GE-1A (POWER), GE-2A (POWER), PW-10A (POWER, EJECT SW), PD-10 (REMOCON LIGHT RECEPTOR), FT-4C (FUNCTION SW) SCHEMATIC DIAGRAM

–Ref. No. GE-1A BOARD, GE-2A BOARD: 7000 series, PW-10A BOARD: 7500 series, PD-10 BOARD: 7600 series, FT-4C BOARD: 7700 series–

E Model

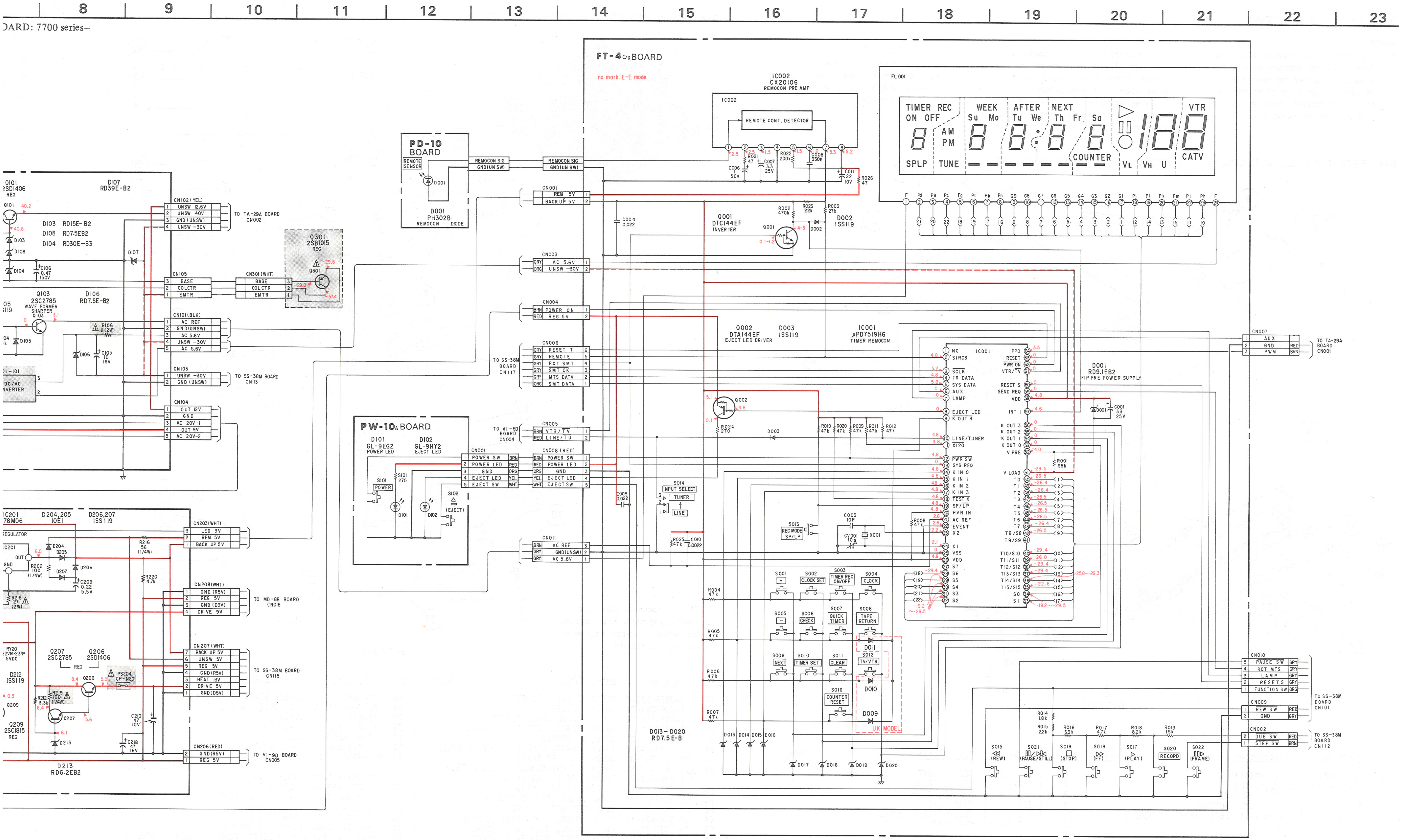
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
GE-1A BOARD
no mark: E-E mode
T101 POWER TRANSFORMER
PS101 ICP-N15
PS102 ICP-N20
AC200 – 240V 50/60Hz
T102 LINE FILTER
F101 250V 500mA
C107 0.1 300V
D101,102 10E1
Q101 2SD1406 REG
D107 RD39E-B2
D103 RD15E-B2
D108 RD7.5EB2
D104 RD30E-B3
Q103 2SC2785 WAVE FORMER SHARPER
D105 1SS119
D106 RD7.5E-B2
R106 18 (2W)
DI-101 DC/AC INVERTER
※NOT REPLACEBLE BUILT IN TRANSFORMER
CN102 (YEL) UNSW 12.6V UNSW 40V GND (UNSW) UNSW -30V
TO TA-29A BOARD CN002
CN105 BASE COLCTR EMTR
CN301 (WHT) BASE COLCTR EMTR
Q301 2SB1015 REG
CN101 (BLK) AC REF GND (UNSW) AC 5.6V UNSW -30V AC 5.6V
CN103 UNSW -30V GND (UNSW)
TO SS-38M BOARD CN113
CN104 OUT 12V GND AC 20V-1 OUT 9V AC 20V-2
GE-2A BOARD
no mark: E-E mode
IC201 L78M06 6V REGULATOR
D204,205 10E1
D206,207 1SS119
D202 D5FB10 RECT
RY201 G2VN-237P 5VDC
D212 1SS119
Q207 2SC2785
Q206 2SD1406 REG
PS204 ICP-N20
PS201 ICP-N25
PS203 ICP-N25
PS202 ICP-N308
Q208 DTC144ES REG
Q209 2SC1815 REG
D213 RD6.2EB2
C201 8200 45V
DC/DC CONVERTER
CN204 OUT 12V GND AC 20V-1 OUT 9V AC 20V-2
CN209 12V GND OUT 12V 5V GND OUT 5V 9V GND OUT 9V GND INPUT
12W GND OUT 12V 5V GND OUT 5V 9V GND OUT 9V GND INPUT
CN201 (BLK) REG 5V POWER ON
CN203 (WHT) LED 9V REM 5V BACK UP 5V
CN208 (WHT) GND (R5V) REG 5V GND (D9V) DRIVE 9V
TO MD-8B BOARD CN018
CN207 (WHT) BACK UP 5V UNSW 5V REG 5V GND (R5V) HEAT 13V DRIVE 5V GND (D5V)
TO SS-38M BOARD CN115
CN206 (RED) GND (R5V) REG 5V
TO VI-9D BOARD CN005
PD-10 BOARD
REMOTE SENSOR
D001 PH302B REMOCON DIODE
REMOCON SIG GND (UN SW)
PW-10A BOARD
D101 GL-9EG2 POWER LED
D102 GL-9HY2 EJECT LED
S101 POWER
S102 (EJECT)
CN001 POWER SW POWER LED GND EJECT LED EJECT SW
CN008 (RED) POWER SW POWER LED GND EJECT LED EJECT SW
TO VI-9D BOARD CN004
TO SS-38M BOARD CN117
FT-4C/D BOARD
no mark: E-E mode
IC002 CX20106 REMOCON PRE AMP
REMOTE CONT. DETECTOR
CN001 REM 5V BACK UP 5V
CN003 AC 5.6V UNSW -30V
CN004 POWER ON REG 5V
CN006 RESET T REMOTE RQT SMT SMT CK MTS DATA SMT DATA
CN005 VTR/TV LINE/TU
CN011 AC REF GND (UNSW) AC 5.6V
Q001 DTC144EF INVERTER
Q002 DTA144EF EJECT LED DRIVER
D003 1SS119
S014 INPUT SELECT TUNER LINE
S013 REC MODE SP/LP
S001 S005 S009 NEXT
D013 – D020 RD7.5E-B

-4C (FUNCTION SW) SCHEMATIC DIAGRAM

OARD: 7700 series–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23
FT-4C/D BOARD
no mark: E-E mode
IC002 CX20106 REMOCON PRE AMP
REMOTE CONT. DETECTOR
FL001
TIMER REC ON OFF
WEEK Su Mo Tu We Th Fr Sa
AFTER NEXT
AM PM
SPLP TUNE COUNTER
VTR CATV
VL VH U
PD-10 BOARD
REMOTE SENSOR
D001 PH302B REMOCON DIODE
REMOCON SIG
GND (UN SW)
Q301 2SB1015 REG
Q001 DTC144EF INVERTER
D002 1SS119
Q002 DTA144EF EJECT LED DRIVER
D003 1SS119
IC001 μPD7519HG TIMER REMOCON
D001 RD9.1EB2 FIP PRE POWER SUPPLY
PW-10A BOARD
D101 GL-9EG2 POWER LED
D102 GL-9HY2 EJECT LED
S101 POWER
S102 (EJECT)
CN001
POWER SW
POWER LED
GND
EJECT LED
EJECT SW
CN008 (RED)
CN001 REM 5V BACK UP 5V
CN003 AC 5.6V UNSW -30V
CN004 POWER ON REG 5V
CN006 RESET T REMOTE RQT SMT SMT CK MTS DATA SMT DATA
TO SS-38M BOARD CN117
CN005 VTR/TV LINE/TU
TO VI-90 BOARD CN004
CN011 AC REF GND (UNSW) AC 5.6V
S014 INPUT SELECT TUNER LINE
S013 REC MODE SP/LP
S001 +
S002 CLOCK SET
S003 TIMER REC ON/OFF
S004 CLOCK
S005 −
S006 CHECK
S007 QUICK TIMER
S008 TAPE RETURN
S009 NEXT
S010 TIMER SET
S011 CLEAR
S012 TV/VTR
S016 COUNTER RESET
D011 D010 D009
UK MODEL
D013−D020 RD7.5E-B
S015 (REW)
S021 (PAUSE/STILL)
S019 (STOP)
S018 (FF)
S017 (PLAY)
S020 RECORD
S022 (FRAME)
CN007 AUX GND PWM
TO TA-29A BOARD CN001
CN010 PAUSE SW RQT MTS LAMP RESET S FUNCTION SW
CN009 REW SW GND
TO SS-38M BOARD CN101
CN002 DUB SW STEP SW
TO SS-38M BOARD CN112
Q101 2SD1406 REG
D107 RD39E-B2
D103 RD15E-B2
D108 RD7.5EB2
D104 RD30E-B3
CN102 (YEL) UNSW 12.6V UNSW 40V GND (UNSW) UNSW -30V
TO TA-29A BOARD CN002
Q103 2SC2785 WAVE FORMER SHARPER
D106 RD7.5E-B2
CN105 BASE COLCTR EMTR
CN301 (WHT)
CN101 (BLK) AC REF GND (UNSW) AC 5.6V UNSW -30V AC 5.6V
CN103 UNSW -30V GND (UNSW)
TO SS-38M BOARD CN113
CN104 OUT 12V GND AC 20V-1 OUT 9V AC 20V-2
DC/AC CONVERTER
IC201 78M06 REGULATOR
D204, 205 10E1
D206, 207 1SS119
CN203 (WHT) LED 9V REM 5V BACK UP 5V
CN208 (WHT) GND (R5V) REG 5V GND (D9V) DRIVE 9V
TO MD-8B BOARD CN018
RY201
D212 1SS119
Q207 2SC2785
Q206 2SD1406
PS204 ICP-N20
CN207 (WHT) BACK UP 5V UNSW 5V REG 5V GND (R5V) HEAT 13V DRIVE 5V GND (D5V)
TO SS-38M BOARD CN115
Q209 2SC1815 REG
D213 RD6.2EB2
CN206 (RED) GND (R5V) REG 5V
TO VI-90 BOARD CN005

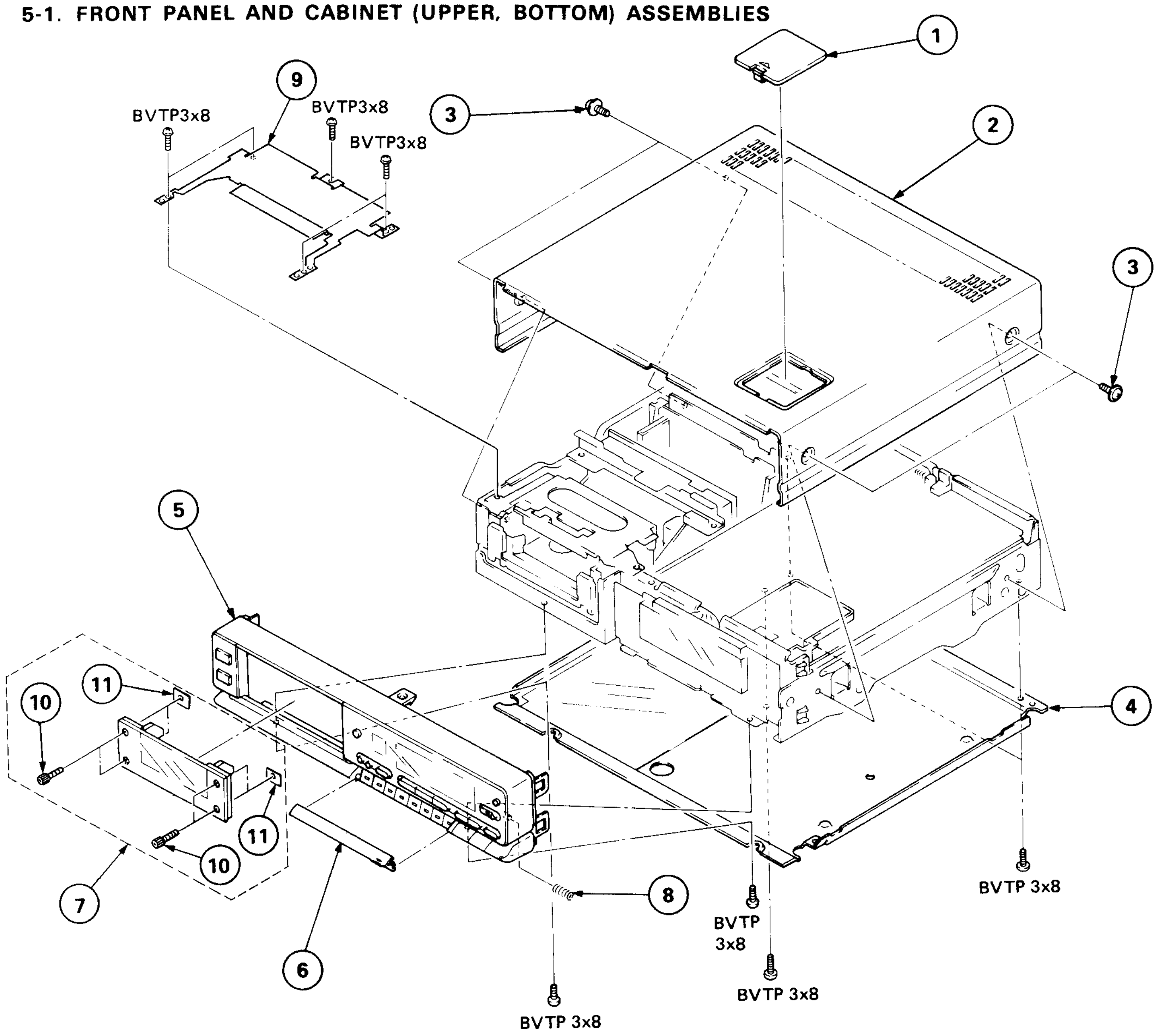
5. EXPLODED VIEWS

NOTE:

- Itmes with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

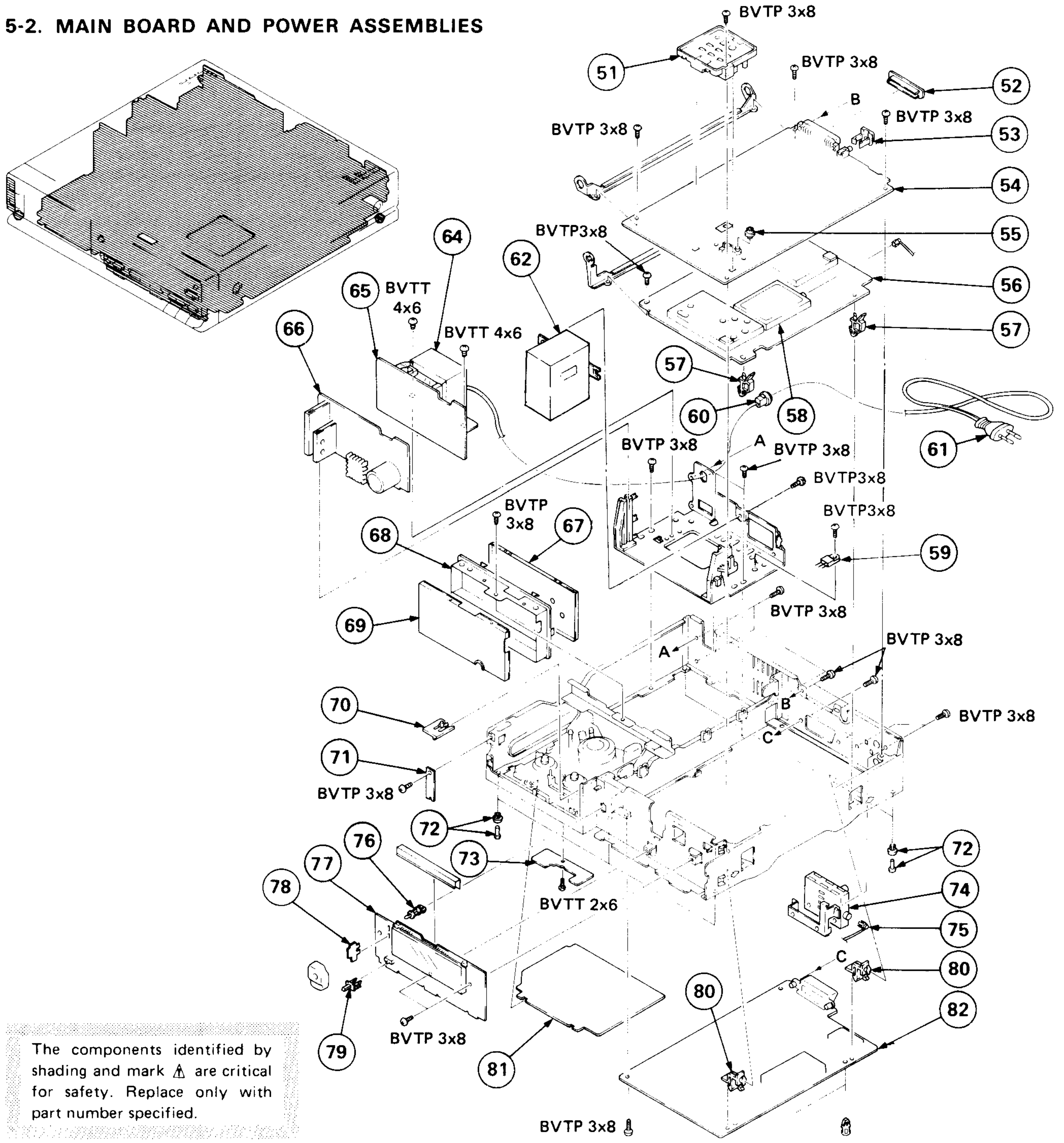
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-1. FRONT PANEL AND CABINET (UPPER, BOTTOM) ASSEMBLIES



No.	Part No.	Description	Remark
1	*2-352-647-01	LID, PRESET	
2	3-691-908-01	CASE, UPPER	
3	4-886-821-01	SCREW, M3 CASE	
4	*X-3689-011-1	PLATE ASSY, BOTTOM	
5	X-3689-077-1	PANEL ASSY (LEJ), FRONT (E MODEL)	
6	3-691-902-01	DOOR, FRONT	
7	X-3689-007-1	LID (L) ASSY	10,11
8	4-869-230-00	SPRING, COMPRESSION	
9	*3-696-844-01	CASE,SHIELD	
10	3-689-039-01	SCREW (M2x5), SMALL	
11	3-689-040-01	NUT,PLATE	

5-2. MAIN BOARD AND POWER ASSEMBLIES



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remark
51	X-3689-023-2	KEYBOARD ASSY, RESET	
52	3-689-085-01	COVER, SOCKET	
53	3-691-912-01	PLATE, ORNAMENTAL, REMOTE	
54	*A-7060-360-A	SS-38M BOARD, COMPLETE (E MODEL)	
55	3-691-971-01	KNOB, SHARPNESS	
56	*A-7060-141-A	TA-29A BOARD, COMPLETE (AEP, E MODEL)	
57	*3-682-047-01	HOLDER (A), PC BOARD	
58	⚠1-463-577-31	TUNER, ET (BT-883AD) (AEP, E MODEL)	
59	⚠ 8-729-202-02	TRANSISTOR 2SB1015-Y Q301	
60	⚠3-703-244-00	BUSHING (2104), CORD	
61	⚠1-534-817-XX	CORD, POWER (AEP, E MODEL)	
62	⚠1-464-617-11	CONVERTER UNIT, DC-DC	
64	⚠1-448-439-11	TRANSFORMER, POWER T901 (E MODEL)	
65	*A-7070-217-A	GE-1A BOARD, MOUNTED (E MODEL)	
66	*A-7070-218-A	GE-2A BOARD, MOUNTED (E MODEL)	
68	*A-7060-064-A	RP-25B BOARD, COMPLETE	
69	*3-689-066-01	LID, SHIELD CASE, RP	
70	*3-691-916-01	COVER, CAP	
71	*1-615-312-11	PW-10 BOARD	
72	3-670-155-11	LEG	
73	*1-615-309-11	RS-11 BOARD	
74	⚠1-464-471-11	BOOSTER MIXER, RF MODULATOR (RFU-831) (AEP, E MODEL)	
75	*1-555-110-00	CABLE, PIN	
76	*4-303-475-00	HOLDER, P.C	
77	*A-7060-137-A	FT-4C BOARD, COMPLETE (AEP, E MODEL)	
78	*1-615-311-11	PD-10 BOARD	
79	3-689-027-01	KNOB, SLIDE	
80	*3-682-613-00	CLIP (C), ANCHOR	
81	*A-7060-138-A	MD-8B BOARD, COMPLETE (AEP, E MODEL)	
82	*A-7060-377-A	VI-9D BOARD, COMPLETE (E MODEL)	

6. ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

- MF : μF, PF : μμF

COILS

- MMH : mH, UH : μH

Ref.No	Part No.	Description				Remark
	*1-618-310-11	GE-1A BOARD ************				
	1-533-162-00	HOLDER, FUSE				
	*3-701-948-11	LABEL, FUSE				
	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3				
	7-685-646-81	SCREW +BVTP 3X8 TYPE2				
		CAPACITOR				
C101	1-123-605-00	ELECT	100MF	20%	100V	
C102	1-123-605-00	ELECT	100MF	20%	100V	
C103	1-123-380-00	ELECT	1MF	20%	50V	
C104	1-123-380-00	ELECT	1MF	20%	50V	
C105	1-123-356-00	ELECT	10MF	20%	16V	
C106	1-123-379-00	ELECT	0.47MF	20%	50V	
C107	⚠1-130-680-00	FILM	0.1MF	20%	300V	
		CONNECTOR				
CN101	*1-560-893-00	PIN, CONNECTOR 5P				
CN102	*1-560-892-00	PIN, CONNECTOR 4P				
		DIODE				
D101	8-719-200-02	DIODE 10E-2				
D102	8-719-200-02	DIODE 10E-2				
D103	8-719-100-71	DIODE RD15EB2				
D104	8-719-101-02	DIODE RD30EB4				
D105	8-719-911-19	DIODE 1SS119				
D106	8-719-100-44	DIODE RD7.5EB2				
D107	8-719-101-24	DIODE RD39EB2				
D108	8-719-100-94	DIODE RD27EB2				
		INVERTER UNIT				
DI101	⚠1-464-618-11	INVERTER UNIT, DC-AC				
		FUSE				
F101	⚠1-532-279-00	FUSE, TIME-LAG				
		IC LINK				
PS101	⚠1-532-679-00	LINK, IC ICP-N15				
PS102	⚠1-532-685-00	LINK, IC ICP-N20				
		TRANSISTOR				
Q101	8-729-201-78	TRANSISTOR 2SD1406				
Q103	8-729-178-54	TRANSISTOR 2SC2785				
		RESISTOR				
R101	1-247-849-00	CARBON	5.6K	5%	1/6W	
R102	1-247-851-00	CARBON	6.8K	5%	1/6W	
R103	1-249-429-11	CARBON	10K	5%	1/6W	
R104	1-249-429-11	CARBON	10K	5%	1/6W	
R106	⚠1-206-469-00	METAL OXIDE	18	5%	2W	F
		TRANSFORMER				
T102	⚠1-421-357-31	TRANSFORMER, LINE FILTER				
**						
	*1-618-311-11	GE-2A BOARD ************				
		CAPACITOR				
C201	1-125-437-11	ELECT(BLOCK)	8200MF	20%	35V	
C208	1-123-319-51	ELECT	47MF	20%	16V	
C209	1-125-347-00	DOUBLE LAYERS	000002200R		5.5V	
C210	1-123-306-00	ELECT	47MF	20%	10V	
C211	1-123-306-00	ELECT	47MF	20%	10V	
C212	1-123-319-51	ELECT	47MF	20%	16V	
C213	1-123-332-00	ELECT	47MF	20%	25V	
C214	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C215	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C216	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C218	1-123-319-51	ELECT	47MF	20%	16V	
		CONNECTOR				
CN201	*1-560-890-00	PIN, CONNECTOR 2P				
CN203	*1-560-891-00	PIN, CONNECTOR 3P				
CN206	*1-560-890-00	PIN, CONNECTOR 2P				
CN207	*1-560-895-00	PIN, CONNECTOR 7P				
CN208	*1-560-892-00	PIN, CONNECTOR 4P				
		DIODE				
D202	8-719-550-14	DIODE D5FB10F				
D204	8-719-200-02	DIODE 10E-2				
D205	8-719-200-02	DIODE 10E-2				
D206	8-719-911-19	DIODE 1SS119				
D207	8-719-911-19	DIODE 1SS119				
D212	8-719-911-19	DIODE 1SS119				
D213	8-719-100-38	DIODE RD6.2EB2				
		IC				
IC201	8-759-801-26	IC L78M06				
		IC LINK				
PS201	⚠1-532-637-00	LINK, IC ICP-N25				
PS202	⚠1-532-675-21	LINK, IC ICP-N38				
PS203	⚠1-532-637-00	LINK, IC ICP-N25				
PS204	⚠1-532-685-00	LINK, IC ICP-N20				
		TRANSISTOR				
Q206	8-729-201-78	TRANSISTOR 2SD1406				
Q207	8-729-178-54	TRANSISTOR 2SC2785				
Q208	8-729-900-89	TRANSISTOR DTC144ES				
Q209	8-729-281-53	TRANSISTOR 2SC1815-GR				

RESISTOR

Ref.No	Part No.	Description				Remark
R202	1-247-700-11	CARBON	100	5%	1/4W	
R212	1-247-843-00	CARBON	3.3K	5%	1/6W	
R213	1-247-831-00	CARBON	1K	5%	1/6W	
R214	1-247-831-00	CARBON	1K	5%	1/6W	
R215	1-249-429-11	CARBON	10K	5%	1/6W	
R216	1-247-697-11	CARBON	56	5%	1/4W	
R218	⚠.1-206-473-00	METAL OXIDE	27	5%	2W F	
R219	⚠.1-247-700-11	CARBON	100	5%	1/4W	
R220	1-249-425-11	CARBON	4.7K	5%	1/6W	

RELAY

Ref.No	Part No.	Description	Remark
RY201	1-515-464-00	RELAY	

* * *

*A-7060-360-A SS-38M BOARD, COMPLETE

CAPACITOR

Ref.No	Part No.	Description				Remark
C001	1-130-489-00	MYLAR	0.033MF	5%	50V	
C004	1-123-356-00	ELECT	10MF	20%	16V	
C005	1-123-380-00	ELECT	1MF	20%	50V	
C006	1-123-380-00	ELECT	1MF	20%	50V	
C010	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C098	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C099	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C102	1-161-055-00	CERAMIC	0.022MF	10%	25V	
C103	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C105	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C106	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C107	1-101-880-00	CERAMIC	47PF	5%	50V	
C108	1-101-880-00	CERAMIC	47PF	5%	50V	
C109	1-161-043-00	CERAMIC	0.0022MF	10%	25V	
C110	1-125-373-11	DOUBLE LAYERS 22000MF			5.5V	
C111	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C112	1-123-356-00	ELECT	10MF	20%	16V	
C113	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C114	1-123-379-00	ELECT	0.47MF	20%	50V	
C115	1-123-379-00	ELECT	0.47MF	20%	50V	
C116	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C117	1-123-380-00	ELECT	1MF	20%	50V	
C118	1-161-059-00	CERAMIC	0.047MF	10%	25V	
C121	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C122	1-102-973-00	CERAMIC	100PF	5%	50V	
C123	1-131-343-00	TANTALUM	0.22MF	20%	35V	
C131	1-119-353-00	ELECT	220MF		10V	
C136	1-161-059-00	CERAMIC	0.047MF	10%	25V	
C138	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C190	1-102-973-00	CERAMIC	100PF	5%	50V	
C191	1-102-973-00	CERAMIC	100PF	5%	50V	
C201	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C202	1-124-271-00	ELECT	1MF	20%	50V	
C203	1-102-973-00	CERAMIC	100PF	5%	50V	
C209	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C218	1-123-356-00	ELECT	10MF	20%	16V	
C219	1-123-608-51	ELECT	0.22MF	20%	50V	
C220	1-161-047-00	CERAMIC	0.0047MF	10%	25V	
C231	1-124-268-00	ELECT	0.22MF	20%	50V	
C233	1-124-275-00	ELECT	2.2MF	20%	35V	
C234	1-161-059-00	CERAMIC	0.047MF	10%	25V	
C241	1-124-282-00	ELECT	22MF	20%	25V	
C299	1-123-356-00	ELECT	10MF	20%	16V	
C301	1-102-517-00	CERAMIC	30PF	5%	50V	
C302	1-120-531-61	CERAMIC	150PF	5%	50V	
C303	1-102-905-00	CERAMIC	130PF	5%	50V	
C304	1-102-905-00	CERAMIC	130PF	5%	50V	
C305	1-102-905-00	CERAMIC	130PF	5%	50V	
C306	1-102-905-00	CERAMIC	130PF	5%	50V	
C307	1-124-271-00	ELECT	1MF	20%	50V	
C308	1-161-055-00	CERAMIC	0.022MF	10%	25V	
C309	1-123-330-00	ELECT	22MF	20%	16V	
C310	1-123-330-00	ELECT	22MF	20%	16V	
C311	1-123-330-00	ELECT	22MF	20%	16V	
C320	1-123-330-00	ELECT	22MF	20%	16V	
C321	1-161-055-00	CERAMIC	0.022MF	10%	25V	
C322	1-123-330-00	ELECT	22MF	20%	16V	
C333	1-161-055-00	CERAMIC	0.022MF	10%	25V	
C350	1-124-271-00	ELECT	1MF	20%	50V	
C401	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C402	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C501	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C502	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C932	1-123-306-00	ELECT	47MF	20%	10V	

CONNECTOR

Ref.No	Part No.	Description	Remark
CN101	*1-560-895-00	PIN, CONNECTOR 7P	
CN102	*1-560-900-00	PIN, CONNECTOR 12P	
CN103	*1-560-892-00	PIN, CONNECTOR 4P	
CN105	*1-560-897-00	PIN, CONNECTOR 9P	
CN106	*1-560-897-00	PIN, CONNECTOR 9P	
CN107	*1-560-895-00	PIN, CONNECTOR 7P	
CN108	*1-560-893-00	PIN, CONNECTOR 5P	
CN111	*1-560-895-00	PIN, CONNECTOR 7P	
CN112	*1-560-890-00	PIN, CONNECTOR 2P	
CN113	*1-560-890-00	PIN, CONNECTOR 2P	
CN114	*1-560-895-00	PIN, CONNECTOR 7P	
CN116	1-562-765-11	SOCKET 21P	
CN117	*1-560-894-00	PIN, CONNECTOR 6P	
CN119	*1-560-890-00	PIN, CONNECTOR 2P	
CN201	*1-560-895-00	PIN, CONNECTOR 7P	
CN202	*1-560-894-00	PIN, CONNECTOR 6P	
CN301	*1-560-892-00	PIN, CONNECTOR 4P	
CN601	*1-560-891-00	PIN, CONNECTOR 3P	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

SS-38M

COMPOSITION CIRCUIT BLOCK

Ref.No	Part No.	Description	Remark
CP006	1-232-786-11	COMPOSITION CIRCUIT BLOCK	
CP008	1-232-789-11	COMPOSITION CIRCUIT BLOCK	
CP009	1-232-787-11	COMPOSITION CIRCUIT BLOCK	
CP010	1-232-790-11	COMPOSITION CIRCUIT BLOCK	
CP011	1-232-845-11	COMPOSITION CIRCUIT BLOCK	
CP012	1-232-786-11	COMPOSITION CIRCUIT BLOCK	
CP013	1-232-851-11	COMPOSITION CIRCUIT BLOCK	
CP018	1-232-841-11	COMPOSITION CIRCUIT BLOCK	
CP020	1-232-852-11	COMPOSITION CIRCUIT BLOCK	
CP021	1-232-846-12	COMPOSITION CIRCUIT BLOCK	
CP022	1-232-842-11	COMPOSITION CIRCUIT BLOCK	
CP023	1-232-924-11	COMPOSITION CIRCUIT BLOCK	
CP024	1-232-842-11	COMPOSITION CIRCUIT BLOCK	
CP028	1-232-923-11	COMPOSITION CIRCUIT BLOCK	
CP029	1-232-844-11	COMPOSITION CIRCUIT BLOCK	
CP030	1-232-782-11	COMPOSITION CIRCUIT BLOCK	
CP031	1-232-925-11	COMPOSITION CIRCUIT BLOCK	
CP032	1-232-930-11	COMPOSITION CIRCUIT BLOCK	
CP033	1-232-926-11	COMPOSITION CIRCUIT BLOCK	

DIODE

Ref.No	Part No.	Description	Remark
D004	8-719-911-19	DIODE 1SS119	
D005	8-719-000-06	DIODE MC921	
D102	8-719-000-06	DIODE MC921	
D104	8-719-000-12	DIODE MC931	
D106	8-719-000-12	DIODE MC931	
D108	8-719-101-32	DIODE RD2.7EL1	
D109	8-719-000-06	DIODE MC921	
D111	8-719-911-19	DIODE 1SS119	
D126	8-719-113-07	DIODE RD13E-B	
D131	8-719-113-07	DIODE RD13E-B	
D150	8-719-100-38	DIODE RD6.2EB2	
D151	8-719-100-38	DIODE RD6.2EB2	
D204	8-719-000-12	DIODE MC931	
D210	8-719-000-04	DIODE MC911	
D301	8-719-911-19	DIODE 1SS119	
D302	8-719-911-19	DIODE 1SS119	
D308	8-719-911-19	DIODE 1SS119	
D309	8-719-911-19	DIODE 1SS119	
D310	8-719-911-19	DIODE 1SS119	
D501	8-719-911-19	DIODE 1SS119	
D502	8-719-911-19	DIODE 1SS119	

FILTER

Ref.No	Part No.	Description	Remark
FL301	1-235-830-11	BPF	
FL302	1-235-829-11	BPF	

IC

Ref.No	Part No.	Description	Remark
IC101	8-759-913-87	IC MB88551-159N	
IC102	8-752-320-11	IC CXK1001P	
IC103	8-759-913-67	IC MB3763P	
IC104	8-759-913-67	IC MB3763P	
IC105	8-759-240-30	IC TC4030BP	
IC107	8-759-103-93	IC UPC393C	
IC108	8-759-200-07	IC TC40H157P	
IC109	8-759-602-64	IC M50761-692P	
IC110	8-759-240-11	IC TC4011BP	
IC111	8-759-045-38	IC MC14538BCP	
IC112	8-759-700-81	IC NJM555D	
IC201	8-752-013-50	IC CX20135	
IC202	8-759-200-56	IC TC4526BP	
IC203	8-759-135-80	IC UPC358C	
IC204	8-759-240-66	IC TC4066BP	
IC301	8-752-203-20	IC CX22032	
IC302	1-807-153-11	IC (DIFFERENTIAL DETECTOR) H8D1756	
IC303	8-759-602-76	IC M50763-633SP	
IC304	8-759-940-94	IC MSM4094RS	
IC305	8-759-200-07	IC TC40H157P	
IC306	8-759-240-53	IC TC4053BP	
IC401	8-759-135-80	IC UPC358C	
IC402	8-759-045-38	IC MC14538BCP	
IC404	8-759-240-66	IC TC4066BP	
IC501	8-759-045-38	IC MC14538BCP	

JACK

Ref.No	Part No.	Description	Remark
J118	1-507-562-00	JACK	

COIL

Ref.No	Part No.	Description	Remark
L101	1-407-169-XX	MICRO INDUCTOR 100UH	
L601	1-408-411-00	MICRO INDUCTOR 15UH	
L933	1-408-427-00	MICRO INDUCTOR 330UH	

COATING PIN

Ref.No	Part No.	Description	Remark
LP001	*4-352-844-01	PIN, LEAD, COATING	
LP002	*4-352-844-01	PIN, LEAD, COATING	

IC LINK

Ref.No	Part No.	Description	Remark
PS100⚠	1-532-605-00	LINK, IC ICP-N10	
PS101⚠	1-532-679-00	LINK, IC ICP-N15	
PS102⚠	1-532-605-00	LINK, IC ICP-N10	

TRANSISTOR

Ref.No	Part No.	Description	Remark
Q001	8-729-900-33	TRANSISTOR DTC144EF	
Q003	8-729-178-54	TRANSISTOR 2SC2785	
Q009	8-729-900-89	TRANSISTOR DTC144ES	
Q010	8-729-900-89	TRANSISTOR DTC144ES	
Q101	8-729-177-32	TRANSISTOR 2SD773	
Q103	8-729-900-89	TRANSISTOR DTC144ES	
Q104	8-729-245-83	TRANSISTOR 2SC2458	
Q105	8-729-245-83	TRANSISTOR 2SC2458	
Q107	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q111	8-729-900-63	TRANSISTOR DTA124ES	
Q112	8-729-900-80	TRANSISTOR DTC114ES	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description	Remark
Q113	8-729-900-63	TRANSISTOR DTA124ES	
Q114	8-729-245-83	TRANSISTOR 2SC2458	
Q116	8-729-245-83	TRANSISTOR 2SC2458	
Q117	8-729-245-83	TRANSISTOR 2SC2458	
Q118	8-729-245-83	TRANSISTOR 2SC2458	
Q122	8-729-900-89	TRANSISTOR DTC144ES	
Q123	8-729-900-89	TRANSISTOR DTC144ES	
Q124	8-729-245-83	TRANSISTOR 2SC2458	
Q125	8-729-900-89	TRANSISTOR DTC144ES	
Q126	8-729-900-89	TRANSISTOR DTC144ES	
Q127	8-729-900-89	TRANSISTOR DTC144ES	
Q128	8-729-900-89	TRANSISTOR DTC144ES	
Q129	8-729-900-89	TRANSISTOR DTC144ES	
Q130	8-729-900-80	TRANSISTOR DTC114ES	
Q131	8-729-900-36	TRANSISTOR DTC124ES	
Q135	8-729-245-83	TRANSISTOR 2SC2458	
Q137	8-729-900-89	TRANSISTOR DTC144ES	
Q151	8-729-900-89	TRANSISTOR DTC144ES	
Q201	8-729-245-83	TRANSISTOR 2SC2458	
Q202	8-729-245-83	TRANSISTOR 2SC2458	
Q203	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q204	8-729-245-83	TRANSISTOR 2SC2458	
Q205	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q206	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q207	8-729-900-89	TRANSISTOR DTC144ES	
Q211	8-729-900-65	TRANSISTOR DTA144ES	
Q212	8-729-900-65	TRANSISTOR DTA144ES	
Q213	8-729-900-89	TRANSISTOR DTC144ES	
Q214	8-729-900-89	TRANSISTOR DTC144ES	
Q215	8-729-900-65	TRANSISTOR DTA144ES	
Q219	8-729-900-89	TRANSISTOR DTC144ES	
Q221	8-729-900-89	TRANSISTOR DTC144ES	
Q301	8-729-115-30	TRANSISTOR 2SK105A-30	
Q302	8-729-115-30	TRANSISTOR 2SK105A-30	
Q303	8-729-115-30	TRANSISTOR 2SK105A-30	
Q304	8-729-115-30	TRANSISTOR 2SK105A-30	
Q307	8-729-115-30	TRANSISTOR 2SK105A-30	
Q401	8-729-900-89	TRANSISTOR DTC144ES	
Q402	8-729-900-89	TRANSISTOR DTC144ES	

RESISTOR

Ref.No	Part No.	Description				Remark
R002	1-249-429-11	CARBON	10K	5%	1/6W	
R003	1-247-895-00	CARBON	470K	5%	1/6W	
R008	1-249-425-11	CARBON	4.7K	5%	1/6W	
R009	1-247-879-00	CARBON	100K	5%	1/6W	
R010	1-247-831-00	CARBON	1K	5%	1/6W	
R028	1-247-899-00	CARBON	680K	5%	1/6W	
R099	1-247-831-00	CARBON	1K	5%	1/6W	
R100	1-249-429-11	CARBON	10K	5%	1/6W	
R101	1-249-437-11	CARBON	47K	5%	1/6W	
R102	1-247-859-00	CARBON	15K	5%	1/6W	
R103	1-247-853-00	CARBON	8.2K	5%	1/6W	
R104	1-249-425-11	CARBON	4.7K	5%	1/6W	
R105	1-247-843-00	CARBON	3.3K	5%	1/6W	
R106	1-247-839-00	CARBON	2.2K	5%	1/6W	
R107	1-247-837-00	CARBON	1.8K	5%	1/6W	
R108	1-247-857-00	CARBON	12K	5%	1/6W	
R119	1-249-429-11	CARBON	10K	5%	1/6W	
R120	1-247-823-00	CARBON	470	5%	1/6W	
R121	1-249-429-11	CARBON	10K	5%	1/6W	
R131	1-247-831-00	CARBON	1K	5%	1/6W	
R132	1-247-831-00	CARBON	1K	5%	1/6W	
R135	1-247-843-00	CARBON	3.3K	5%	1/6W	
R136	1-249-429-11	CARBON	10K	5%	1/6W	
R138	1-249-429-11	CARBON	10K	5%	1/6W	
R139	1-249-429-11	CARBON	10K	5%	1/6W	
R145	1-247-857-00	CARBON	12K	5%	1/6W	
R155	1-247-879-00	CARBON	100K	5%	1/6W	
R166	1-249-429-11	CARBON	10K	5%	1/6W	
R167	1-249-437-11	CARBON	47K	5%	1/6W	
R168	1-249-437-11	CARBON	47K	5%	1/6W	
R169	1-249-437-11	CARBON	47K	5%	1/6W	
R172	1-249-429-11	CARBON	10K	5%	1/6W	
R173	1-247-831-00	CARBON	1K	5%	1/6W	
R174	1-249-437-11	CARBON	47K	5%	1/6W	
R175	1-247-879-00	CARBON	100K	5%	1/6W	
R176	1-249-425-11	CARBON	4.7K	5%	1/6W	
R179	1-247-879-00	CARBON	100K	5%	1/6W	
R184	1-247-831-00	CARBON	1K	5%	1/6W	
R185	1-247-831-00	CARBON	1K	5%	1/6W	
R186	1-247-831-00	CARBON	1K	5%	1/6W	
R187	1-247-831-00	CARBON	1K	5%	1/6W	
R188	1-247-831-00	CARBON	1K	5%	1/6W	
R189	1-247-831-00	CARBON	1K	5%	1/6W	
R190	1-247-831-00	CARBON	1K	5%	1/6W	
R191	1-247-831-00	CARBON	1K	5%	1/6W	
R192	1-247-831-00	CARBON	1K	5%	1/6W	
R194	1-247-831-00	CARBON	1K	5%	1/6W	
R195	1-247-839-00	CARBON	2.2K	5%	1/6W	
R196	1-247-821-00	CARBON	390	5%	1/6W	
R202	1-247-843-00	CARBON	3.3K	5%	1/6W	
R203	1-249-434-11	CARBON	27K	5%	1/6W	
R206	1-247-853-00	CARBON	8.2K	5%	1/6W	
R207	1-247-849-00	CARBON	5.6K	5%	1/6W	
R208	1-247-849-00	CARBON	5.6K	5%	1/6W	
R209	1-247-863-00	CARBON	22K	5%	1/6W	
R210	1-247-873-00	CARBON	56K	5%	1/6W	
R211	1-247-869-00	CARBON	39K	5%	1/6W	
R212	1-247-867-00	CARBON	33K	5%	1/6W	
R213	1-247-843-00	CARBON	3.3K	5%	1/6W	
R214	1-249-432-11	CARBON	18K	5%	1/6W	
R231	1-247-867-00	CARBON	33K	5%	1/6W	
R232	1-247-869-00	CARBON	39K	5%	1/6W	
R235	1-249-434-11	CARBON	27K	5%	1/6W	
R236	1-247-879-00	CARBON	100K	5%	1/6W	
R242	1-247-879-00	CARBON	100K	5%	1/6W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description				Remark
R243	1-249-429-11	CARBON	10K	5%	1/6W	
R246	1-249-437-11	CARBON	47K	5%	1/6W	
R260	1-249-429-11	CARBON	10K	5%	1/6W	
R272	1-249-437-11	CARBON	47K	5%	1/6W	
R275	1-249-429-11	CARBON	10K	5%	1/6W	
R280	1-247-849-00	CARBON	5.6K	5%	1/6W	
R284	1-249-425-11	CARBON	4.7K	5%	1/6W	
R285	1-247-899-00	CARBON	680K	5%	1/6W	
R286	1-249-437-11	CARBON	47K	5%	1/6W	
R294	1-247-845-00	CARBON	3.9K	5%	1/6W	
R295	1-247-859-00	CARBON	15K	5%	1/6W	
R301	1-249-437-11	CARBON	47K	5%	1/6W	
R302	1-249-437-11	CARBON	47K	5%	1/6W	
R303	1-249-437-11	CARBON	47K	5%	1/6W	
R304	1-249-437-11	CARBON	47K	5%	1/6W	
R307	1-249-429-11	CARBON	10K	5%	1/6W	
R310	1-247-879-00	CARBON	100K	5%	1/6W	
R311	1-247-879-00	CARBON	100K	5%	1/6W	
R312	1-249-429-11	CARBON	10K	5%	1/6W	
R313	1-247-873-00	CARBON	56K	5%	1/6W	
R318	1-247-863-00	CARBON	22K	5%	1/6W	
R319	1-247-857-00	CARBON	12K	5%	1/6W	
R327	1-247-887-00	CARBON	220K	5%	1/6W	
R350	1-247-879-00	CARBON	100K	5%	1/6W	
R351	1-247-863-00	CARBON	22K	5%	1/6W	
R404	1-249-437-11	CARBON	47K	5%	1/6W	
R408	1-249-437-11	CARBON	47K	5%	1/6W	
R409	1-247-893-00	CARBON	390K	5%	1/6W	
R410	1-247-895-00	CARBON	470K	5%	1/6W	
R425	1-249-429-11	CARBON	10K	5%	1/6W	
R501	1-247-863-00	CARBON	22K	5%	1/6W	
R502	1-249-429-11	CARBON	10K	5%	1/6W	
R503	1-247-881-00	CARBON	120K	5%	1/6W	
R504	1-247-831-00	CARBON	1K	5%	1/6W	
R604	1-247-807-00	CARBON	100	5%	1/6W	

VARIABLE RESISTOR

Ref.No	Part No.	Description	Remark
RV201	1-228-995-00	RES, ADJ, CARBON 22K	
RV202	1-228-995-00	RES, ADJ, CARBON 22K	
RV203	1-228-998-00	RES, ADJ, METAL GLAZE 220K	
RV301	1-228-998-00	RES, ADJ, METAL GLAZE 220K	
RV401	1-228-997-00	RES, ADJ, CARBON 100K	
RV402	1-228-997-00	RES, ADJ, CARBON 100K	
RV501	1-228-997-00	RES, ADJ, METAL GLAZE 100K	
RV601	1-230-660-11	RES, VAR, CARBON 1K	

SWITCH

Ref.No	Part No.	Description	Remark
S101	1-570-157-11	SWITCH, SLIDE	
S102	1-554-174-00	SWITCH, KEY BOARD	
S103	1-554-174-00	SWITCH, KEY BOARD	
S104	1-554-174-00	SWITCH, KEY BOARD	
S105	1-554-174-00	SWITCH, KEY BOARD	

CRYSTAL

Ref.No	Part No.	Description	Remark
X101	1-567-346-11	OSCILLATOR, CERAMIC	
X102	1-527-965-00	OSCILLATOR, CERAMIC	

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*A-7060-377-A VI-9D BOARD, COMPLETE
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CAPACITOR

Ref.No	Part No.	Description				Remark
C001	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C002	1-102-824-00	CERAMIC	470PF	5%	50V	
C003	1-101-006-21	CERAMIC	0.047MF		50V	
C004	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C006	1-102-116-00	CERAMIC	680PF	10%	50V	
C007	1-101-006-21	CERAMIC	0.047MF		50V	
C008	1-123-356-00	ELECT	10MF	20%	16V	
C009	1-123-356-00	ELECT	10MF	20%	16V	
C010	1-123-356-00	ELECT	10MF	20%	16V	
C011	1-101-006-21	CERAMIC	0.047MF		50V	
C012	1-101-006-21	CERAMIC	0.047MF		50V	
C013	1-123-380-00	ELECT	1MF	20%	50V	
C014	1-123-309-00	ELECT	330MF	20%	6.3V	
C015	1-124-471-00	ELECT	1000MF	20%	6.3V	
C016	1-123-369-00	ELECT	4.7MF	20%	25V	
C017	1-123-369-00	ELECT	4.7MF	20%	25V	
C019	1-123-356-00	ELECT	10MF	20%	16V	
C020	1-101-006-21	CERAMIC	0.047MF		50V	
C021	1-101-890-21	CERAMIC	75PF	5%	50V	
C022	1-101-888-00	CERAMIC	68PF	5%	50V	
C023	1-101-880-00	CERAMIC	47PF	5%	50V	
C024	1-101-004-00	CERAMIC	0.01MF		50V	
C025	1-101-006-21	CERAMIC	0.047MF		50V	
C026	1-101-006-21	CERAMIC	0.047MF		50V	
C027	1-123-608-00	ELECT	0.22MF	20%	50V	
C028	1-123-356-00	ELECT	10MF	20%	16V	
C029	1-123-356-00	ELECT	10MF	20%	16V	
C030	1-102-820-00	CERAMIC	330PF	5%	50V	
C031	1-102-973-00	CERAMIC	100PF	5%	50V	
C032	1-102-820-00	CERAMIC	330PF	5%	50V	
C033	1-102-942-00	CERAMIC	5PF	0.5PF	50V	
C034	1-102-958-00	CERAMIC	20PF	5%	50V	
C035	1-102-959-00	CERAMIC	22PF	5%	50V	
C038	1-101-006-21	CERAMIC	0.047MF		50V	
C039	1-102-947-00	CERAMIC	10PF	5%	50V	
C041	1-102-976-00	CERAMIC	180PF	5%	50V	
C042	1-123-369-00	ELECT	4.7MF	20%	25V	
C045	1-123-382-00	ELECT	3.3MF	20%	50V	
C046	1-101-880-00	CERAMIC	47PF	5%	50V	
C049	1-101-006-21	CERAMIC	0.047MF		50V	
C050	1-102-980-00	CERAMIC	270PF	5%	50V	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description			Remark
C051	1-101-005-00	CERAMIC	0.022MF		50V
C052	1-101-005-00	CERAMIC	0.022MF		50V
C053	1-101-006-21	CERAMIC	0.047MF		50V
C054	1-123-356-00	ELECT	10MF	20%	16V
C055	1-102-965-00	CERAMIC	39PF	5%	50V
C056	1-102-946-00	CERAMIC	9PF	0.5PF	50V
C057	1-102-963-00	CERAMIC	33PF	5%	50V
C058	1-101-006-21	CERAMIC	0.047MF		50V
C059	1-102-976-00	CERAMIC	180PF	5%	50V
C060	1-101-888-00	CERAMIC	68PF	5%	50V
C061	1-161-025-00	CERAMIC	0.1MF	10%	25V
C063	1-101-361-00	CERAMIC	150PF	5%	50V
C064	1-102-976-00	CERAMIC	180PF	5%	50V
C065	1-102-971-00	CERAMIC	82PF	5%	50V
C066	1-102-946-00	CERAMIC	9PF	0.5PF	50V
C067	1-102-820-00	CERAMIC	330PF	5%	50V
C068	1-102-960-00	CERAMIC	24PF	5%	50V
C073	1-101-006-21	CERAMIC	0.047MF		50V
C075	1-102-946-00	CERAMIC	9PF	0.5PF	50V
C076	1-102-947-00	CERAMIC	10PF	5%	50V
C077	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C080	1-102-961-00	CERAMIC	27PF	5%	50V
C100	1-101-006-21	CERAMIC	0.047MF		50V
C101	1-102-074-00	CERAMIC	0.001MF	10%	50V
C102	1-101-004-00	CERAMIC	0.01MF		50V
C103	1-101-884-00	CERAMIC	56PF	5%	50V
C104	1-102-959-00	CERAMIC	22PF	5%	50V
C105	1-123-381-00	ELECT	2.2MF	20%	50V
C106	1-123-369-00	ELECT	4.7MF	20%	25V
C107	1-101-884-00	CERAMIC	56PF	5%	50V
C109	1-101-006-21	CERAMIC	0.047MF		50V
C110	1-123-381-00	ELECT	2.2MF	20%	50V
C111	1-123-369-00	ELECT	4.7MF	20%	25V
C112	1-123-369-00	ELECT	4.7MF	20%	25V
C114	1-101-880-00	CERAMIC	47PF	5%	50V
C115	1-101-888-00	CERAMIC	68PF	5%	50V
C116	1-101-361-00	CERAMIC	150PF	5%	50V
C117	1-102-947-00	CERAMIC	10PF	5%	50V
C118	1-123-307-00	ELECT	100MF	20%	6.3V
C119	1-101-890-21	CERAMIC	75PF	5%	50V
C120	1-101-886-21	CERAMIC	62PF	5%	50V
C121	1-101-004-00	CERAMIC	0.01MF		50V
C122	1-101-884-00	CERAMIC	56PF	5%	50V
C123	1-101-004-00	CERAMIC	0.01MF		50V
C124	1-102-959-00	CERAMIC	22PF	5%	50V
C125	1-123-356-00	ELECT	10MF	20%	16V
C126	1-102-074-00	CERAMIC	0.001MF	10%	50V
C127	1-102-074-00	CERAMIC	0.001MF	10%	50V
C128	1-101-006-21	CERAMIC	0.047MF		50V
C129	1-123-308-00	ELECT	220MF	20%	6.3V
C130	1-101-006-21	CERAMIC	0.047MF		50V
C131	1-101-006-21	CERAMIC	0.047MF		50V
C132	1-123-330-00	ELECT	22MF	20%	16V
C133	1-101-004-00	CERAMIC	0.01MF		50V
C135	1-102-074-00	CERAMIC	0.001MF	10%	50V
C136	1-102-966-00	CERAMIC	43PF	5%	50V
C137	1-102-074-00	CERAMIC	0.001MF	10%	50V
C139	1-102-074-00	CERAMIC	0.001MF	10%	50V
C140	1-102-127-21	CERAMIC	0.0068MF	10%	50V
C141	1-123-382-00	ELECT	3.3MF	20%	50V
C142	1-102-074-00	CERAMIC	0.001MF	10%	50V
C143	1-102-074-00	CERAMIC	0.001MF	10%	50V
C144	1-101-006-21	CERAMIC	0.047MF		50V
C145	1-123-356-00	ELECT	10MF	20%	16V
C146	1-102-815-00	CERAMIC	110PF	5%	50V
C147	1-101-004-00	CERAMIC	0.01MF		50V
C148	1-102-074-00	CERAMIC	0.001MF	10%	50V
C150	1-102-074-00	CERAMIC	0.001MF	10%	50V
C151	1-101-361-00	CERAMIC	150PF	5%	50V
C152	1-102-824-00	CERAMIC	470PF	5%	50V
C153	1-102-959-00	CERAMIC	22PF	5%	50V
C154	1-123-381-00	ELECT	2.2MF	20%	50V
C155	1-101-006-21	CERAMIC	0.047MF		50V
C156	1-101-888-00	CERAMIC	68PF	5%	50V
C157	1-101-006-21	CERAMIC	0.047MF		50V
C158	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C159	1-124-239-00	ELECT	6.8MF	20%	25V
C160	1-123-330-00	ELECT	22MF	20%	16V
C161	1-102-963-00	CERAMIC	33PF	5%	50V
C162	1-101-884-00	CERAMIC	56PF	5%	50V
C163	1-102-978-00	CERAMIC	220PF	5%	50V
C164	1-102-978-00	CERAMIC	220PF	5%	50V
C172	1-101-880-00	CERAMIC	47PF	5%	50V
C200	1-101-006-21	CERAMIC	0.047MF		50V
C201	1-101-006-21	CERAMIC	0.047MF		50V
C202	1-101-004-00	CERAMIC	0.01MF		50V
C203	1-101-004-00	CERAMIC	0.01MF		50V
C204	1-101-004-00	CERAMIC	0.01MF		50V
C206	1-101-004-00	CERAMIC	0.01MF		50V
C207	1-102-074-00	CERAMIC	0.001MF	10%	50V
C208	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C209	1-123-356-00	ELECT	10MF	20%	16V
C210	1-101-004-00	CERAMIC	0.01MF		50V
C211	1-102-820-00	CERAMIC	330PF	5%	50V
C212	1-101-004-00	CERAMIC	0.01MF		50V
C213	1-102-820-00	CERAMIC	330PF	5%	50V
C214	1-101-006-21	CERAMIC	0.047MF		50V
C215	1-102-820-00	CERAMIC	330PF	5%	50V
C216	1-102-947-00	CERAMIC	10PF	5%	50V
C217	1-102-966-00	CERAMIC	43PF	5%	50V
C218	1-102-074-00	CERAMIC	0.001MF	10%	50V
C219	1-102-820-00	CERAMIC	330PF	5%	50V
C220	1-102-820-00	CERAMIC	330PF	5%	50V
C221	1-101-004-00	CERAMIC	0.01MF		50V
C222	1-124-239-00	ELECT	6.8MF	20%	25V
C223	1-101-005-00	CERAMIC	0.022MF		50V

When indicating parts by reference number, please include the board name.

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Ref.No	Part No.	Description			Remark
C224	1-123-369-00	ELECT	4.7MF	20%	25V
C225	1-123-356-00	ELECT	10MF	20%	16V
C227	1-101-004-00	CERAMIC	0.01MF		50V
C228	1-101-006-21	CERAMIC	0.047MF		50V
C229	1-123-381-00	ELECT	2.2MF	20%	50V
C230	1-123-608-00	ELECT	0.22MF	20%	50V
C231	1-101-005-00	CERAMIC	0.022MF		50V
C232	1-102-074-00	CERAMIC	0.001MF	10%	50V
C233	1-101-006-21	CERAMIC	0.047MF		50V
C234	1-123-381-00	ELECT	2.2MF	20%	50V
C235	1-102-118-00	CERAMIC	0.0012MF	10%	50V
C237	1-101-880-00	CERAMIC	47PF	5%	50V
C238	1-102-820-00	CERAMIC	330PF	5%	50V
C239	1-102-074-00	CERAMIC	0.001MF	10%	50V
C240	1-123-381-00	ELECT	2.2MF	20%	50V
C241	1-102-074-00	CERAMIC	0.001MF	10%	50V
C242	1-101-005-00	CERAMIC	0.022MF		50V
C243	1-102-962-21	CERAMIC	30PF	5%	50V
C244	1-102-976-00	CERAMIC	180PF	5%	50V
C245	1-102-118-00	CERAMIC	0.0012MF	10%	50V
C246	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C249	1-102-820-00	CERAMIC	330PF	5%	50V
C250	1-123-607-00	ELECT	0.1MF	20%	50V
C251	1-123-609-00	ELECT	0.33MF	20%	50V
C252	1-102-963-00	CERAMIC	33PF	5%	50V
C253	1-102-973-00	CERAMIC	100PF	5%	50V
C254	1-101-880-00	CERAMIC	47PF	5%	50V
C255	1-101-880-00	CERAMIC	47PF	5%	50V
C256	1-123-356-00	ELECT	10MF	20%	16V
C257	1-161-025-00	CERAMIC	0.1MF	10%	25V
C258	1-101-888-00	CERAMIC	68PF	5%	50V
C259	1-102-951-00	CERAMIC	15PF	5%	50V
C260	1-102-976-00	CERAMIC	180PF	5%	50V
C261	1-102-945-00	CERAMIC	8PF	0.5PF	50V
C262	1-101-006-21	CERAMIC	0.047MF		50V
C264	1-101-006-21	CERAMIC	0.047MF		50V
C265	1-101-004-00	CERAMIC	0.01MF		50V
C266	1-101-006-21	CERAMIC	0.047MF		50V
C267	1-101-006-21	CERAMIC	0.047MF		50V
C269	1-101-004-00	CERAMIC	0.01MF		50V
C270	1-102-074-00	CERAMIC	0.001MF	10%	50V
C271	1-101-004-00	CERAMIC	0.01MF		50V
C300	1-123-356-00	ELECT	10MF	20%	16V
C302	1-123-356-00	ELECT	10MF	20%	16V
C304	1-123-381-00	ELECT	2.2MF	20%	50V
C400	1-101-004-00	CERAMIC	0.01MF		50V
C401	1-102-361-00	CERAMIC	0.0039MF	10%	50V
C501	1-101-361-00	CERAMIC	150PF	5%	50V
C502	1-101-004-00	CERAMIC	0.01MF		50V
C601	1-161-025-00	CERAMIC	0.1MF	10%	25V
C602	1-161-023-00	CERAMIC	0.068MF	10%	25V
C700	1-124-471-00	ELECT	1000MF	20%	6.3V

Ref.No	Part No.	Description			Remark
C931	1-123-607-00	ELECT	0.1MF	20%	50V
		CONNECTOR			
CN002	*1-560-890-00	PIN, CONNECTOR 2P			
CN003	*1-560-895-00	PIN, CONNECTOR 7P			
CN004	*1-560-890-00	PIN, CONNECTOR 2P			
CN006	1-561-534-00	SOCKET 21P			
CN008	*1-560-893-00	PIN, CONNECTOR 5P			
CN011	*1-560-896-00	PIN, CONNECTOR 8P			
CN012	*1-560-893-00	PIN, CONNECTOR 5P			
CN020	*1-564-187-00	PIN, CONNECTOR			
		COMPOSITION CIRCUIT BLOCK			
CP001	1-232-919-11	COMPOSITION CIRCUIT BLOCK			
CP003	1-232-914-11	COMPOSITION CIRCUIT BLOCK			
CP004	1-232-917-11	COMPOSITION CIRCUIT BLOCK			
CP005	1-232-918-11	COMPOSITION CIRCUIT BLOCK			
CP006	1-232-928-11	COMPOSITION CIRCUIT BLOCK			
CP007	1-232-935-11	COMPOSITION CIRCUIT BLOCK			
CP008	1-232-937-11	COMPOSITION CIRCUIT BLOCK			
CP011	1-232-922-11	COMPOSITION CIRCUIT BLOCK			
CP012	1-232-920-11	COMPOSITION CIRCUIT BLOCK			
CP013	1-232-938-11	COMPOSITION CIRCUIT BLOCK			
CP014	1-232-915-11	COMPOSITION CIRCUIT BLOCK			
CP015	1-232-912-11	COMPOSITION CIRCUIT BLOCK			
CP016	1-232-931-11	COMPOSITION CIRCUIT BLOCK			
CP017	1-232-913-11	COMPOSITION CIRCUIT BLOCK			
CP018	1-232-933-11	COMPOSITION CIRCUIT BLOCK			
CP019	1-232-916-11	COMPOSITION CIRCUIT BLOCK			
CP020	1-232-932-11	COMPOSITION CIRCUIT BLOCK			
CP021	1-232-936-11	COMPOSITION CIRCUIT BLOCK			
CP022	1-232-934-11	COMPOSITION CIRCUIT BLOCK			
CP100	1-232-927-11	COMPOSITION CIRCUIT BLOCK			
CP101	1-232-921-11	COMPOSITION CIRCUIT BLOCK			
		TRIMMER			
CV200	1-141-227-00	CAP, CERAMIC TRIMMER			
		DIODE			
D001	8-719-911-19	DIODE 1SS119			
D002	8-719-151-07	DIODE RD5.1E-B			
D003	8-719-815-87	DIODE 1S1587			
D004	8-719-815-87	DIODE 1S1587			
D005	8-719-815-87	DIODE 1S1587			
D006	8-719-815-87	DIODE 1S1587			
D008	8-719-911-19	DIODE 1SS119			
D009	8-719-911-19	DIODE 1SS119			
D010	8-719-815-87	DIODE 1S1587			
D102	8-719-000-12	DIODE MC931			
D103	8-719-000-06	DIODE MC921			
D104	8-719-815-87	DIODE 1S1587			

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description	Remark
D105	8-719-815-87	DIODE 1S1587	
D106	8-719-000-12	DIODE MC931	
D107	8-719-000-12	DIODE MC931	
D200	8-719-100-37	DIODE RD6.2EB1	
D203	8-719-000-06	DIODE MC921	
D204	8-719-000-06	DIODE MC921	

DELAY LINE

Ref.No	Part No.	Description	Remark
DL100	1-415-282-31	DELAY LINE	
DL101	1-415-386-21	DELAY LINE, 1H (13.3MHZ)	

FILTER

Ref.No	Part No.	Description	Remark
FL100	1-235-440-11	FILTER, BAND PASS (3.7MHZ)	
FL101	1-235-441-11	FILTER, BAND PASS (5.17MHZ)	
FL200	1-409-408-11	C.E TRAP	
FL201	1-409-396-11	REC C TRAP	
FL202	1-235-437-11	BPF, PB C	

IC

Ref.No	Part No.	Description	Remark
IC001	8-752-013-00	IC CX20130	
IC002	8-752-013-10	IC CX20131	
IC003	8-752-013-20	IC CX20132	
IC004	8-759-302-94	CX22031	
IC005	8-759-913-64	IC CX23064	
IC006	8-759-202-68	IC CX20147	
IC007	1-235-497-11	REC PILOT LPF	

COIL

Ref.No	Part No.	Description	Remark
L001	1-408-421-00	MICRO INDUCTOR 100UH	
L002	1-408-413-00	MICRO INDUCTOR 22UH	
L004	1-408-424-00	MICRO INDUCTOR 180UH	
L005	1-408-426-00	MICRO INDUCTOR 270UH	
L006	1-408-425-00	MICRO INDUCTOR 220UH	
L007	1-408-419-00	MICRO INDUCTOR 68UH	
L010	1-408-424-00	MICRO INDUCTOR 180UH	
L012	1-408-606-21	MICRO INDUCTOR 18UH	
L013	1-408-421-00	MICRO INDUCTOR 100UH	
L014	1-408-422-00	MICRO INDUCTOR 120UH	
L016	1-408-416-00	MICRO INDUCTOR 39UH	
L017	1-408-427-00	MICRO INDUCTOR 330UH	
L018	1-408-422-00	MICRO INDUCTOR 120UH	
L019	1-408-423-00	MICRO INDUCTOR 150UH	
L021	1-410-072-21	MICRO INDUCTOR 820UH	
L022	1-408-421-00	MICRO INDUCTOR 100UH	
L100	1-408-397-00	MICRO INDUCTOR 1UH	
L101	1-408-397-00	MICRO INDUCTOR 1UH	
L103	1-408-418-00	MICRO INDUCTOR 56UH	
L104	1-408-420-00	MICRO INDUCTOR 82UH	
L105	1-408-418-00	MICRO INDUCTOR 56UH	
L106	1-408-421-00	MICRO INDUCTOR 100UH	
L107	1-408-419-00	MICRO INDUCTOR 68UH	
L108	1-408-413-00	MICRO INDUCTOR 22UH	
L109	1-408-408-00	MICRO INDUCTOR 8.2UH	
L110	1-408-412-00	MICRO INDUCTOR 18UH	
L111	1-408-413-00	MICRO INDUCTOR 22UH	
L112	1-408-418-00	MICRO INDUCTOR 56UH	
L113	1-408-397-00	MICRO INDUCTOR 1UH	
L114	1-408-417-00	MICRO INDUCTOR 47UH	
L115	1-408-417-00	MICRO INDUCTOR 47UH	
L116	1-408-414-00	MICRO INDUCTOR 27UH	
L200	1-408-424-00	MICRO INDUCTOR 180UH	
L201	1-408-413-00	MICRO INDUCTOR 22UH	
L203	1-408-422-00	MICRO INDUCTOR 120UH	
L204	1-410-072-21	MICRO INDUCTOR 820UH	
L205	1-408-422-00	MICRO INDUCTOR 120UH	
L206	1-408-425-00	MICRO INDUCTOR 220UH	
L207	1-408-420-00	MICRO INDUCTOR 82UH	
L208	1-408-407-00	MICRO INDUCTOR 6.8UH	
L209	1-408-427-00	MICRO INDUCTOR 330UH	
L400	1-407-177-XX	MICRO INDUCTOR 470UH	
L931	1-408-421-00	MICRO INDUCTOR 100UH	
L932	1-408-421-00	MICRO INDUCTOR 100UH	

VARIABLE COIL

Ref.No	Part No.	Description	Remark
LV001	1-409-397-11	COIL	
LV100	1-408-512-00	COIL (VARIABLE)	

IC LINK

Ref.No	Part No.	Description	Remark
PS200⚠	1-532-679-00	LINK, IC ICP-N15	

TRANSISTOR

Ref.No	Part No.	Description	Remark
Q002	8-729-900-36	TRANSISTOR DTC124ES	
Q003	8-729-117-54	TRANSISTOR 2SA1175	
Q004	8-729-117-54	TRANSISTOR 2SA1175	
Q007	8-729-117-54	TRANSISTOR 2SA1175	
Q008	8-729-384-48	TRANSISTOR 2SA844	
Q009	8-729-245-83	TRANSISTOR 2SC2458	
Q010	8-729-245-83	TRANSISTOR 2SC2458	
Q011	8-729-900-36	TRANSISTOR DTC124ES	
Q012	8-729-117-54	TRANSISTOR 2SA1175	
Q013	8-729-117-54	TRANSISTOR 2SA1175	
Q014	8-729-900-36	TRANSISTOR DTC124ES	
Q015	8-729-900-36	TRANSISTOR DTC124ES	
Q016	8-729-245-83	TRANSISTOR 2SC2458	
Q017	8-729-900-36	TRANSISTOR DTC124ES	
Q021	8-729-900-89	TRANSISTOR DTC144ES	
Q100	8-729-900-36	TRANSISTOR DTC124ES	
Q101	8-729-900-36	TRANSISTOR DTC124ES	
Q102	8-729-117-54	TRANSISTOR 2SA1175	
Q103	8-729-245-83	TRANSISTOR 2SC2458	
Q104	8-729-245-83	TRANSISTOR 2SC2458	
Q105	8-729-245-83	TRANSISTOR 2SC2458	
Q106	8-729-245-83	TRANSISTOR 2SC2458	
Q107	8-729-900-36	TRANSISTOR DTC124ES	
Q108	8-729-900-36	TRANSISTOR DTC124ES	
Q109	8-729-900-36	TRANSISTOR DTC124ES	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

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Ref.No	Part No.	Description	Remark
Q110	8-729-245-83	TRANSISTOR 2SC2458	
Q111	8-729-900-36	TRANSISTOR DTC124ES	
Q200	8-729-245-83	TRANSISTOR 2SC2458	
Q201	8-729-900-36	TRANSISTOR DTC124ES	
Q203	8-729-603-50	TRANSISTOR 2SC403SP	
Q204	8-729-603-50	TRANSISTOR 2SC403SP	
Q205	8-729-900-89	TRANSISTOR DTC144ES	
Q206	8-729-804-08	TRANSISTOR 2SA1319-S	
Q207	8-729-900-36	TRANSISTOR DTC124ES	
Q208	8-729-245-83	TRANSISTOR 2SC2458	
Q209	8-729-245-83	TRANSISTOR 2SC2458	
Q212	8-729-245-83	TRANSISTOR 2SC2458	
Q213	8-729-900-36	TRANSISTOR DTC124ES	
Q214	8-729-900-36	TRANSISTOR DTC124ES	
Q215	8-729-245-83	TRANSISTOR 2SC2458	
Q216	8-729-245-83	TRANSISTOR 2SC2458	
Q217	8-729-245-83	TRANSISTOR 2SC2458	
Q218	8-729-900-61	TRANSISTOR DTA114ES	
Q220	8-729-245-83	TRANSISTOR 2SC2458	
Q258	8-729-900-36	TRANSISTOR DTC124ES	
Q300	8-729-900-36	TRANSISTOR DTC124ES	
Q401	8-729-900-89	TRANSISTOR DTC144ES	
Q402	8-729-178-54	TRANSISTOR 2SC2785-F	
		RESISTOR	
R001	1-247-881-00	CARBON 120K 5% 1/6W	
R002	1-247-895-00	CARBON 470K 5% 1/6W	
R003	1-247-857-00	CARBON 12K 5% 1/6W	
R004	1-247-859-00	CARBON 15K 5% 1/6W	
R005	1-249-437-11	CARBON 47K 5% 1/6W	
R006	1-249-437-11	CARBON 47K 5% 1/6W	
R007	1-247-831-00	CARBON 1K 5% 1/6W	
R008	1-247-891-00	CARBON 330K 5% 1/6W	
R010	1-247-831-00	CARBON 1K 5% 1/6W	
R011	1-247-879-00	CARBON 100K 5% 1/6W	
R012	1-247-875-00	CARBON 68K 5% 1/6W	
R013	1-247-831-00	CARBON 1K 5% 1/6W	
R014	1-249-437-11	CARBON 47K 5% 1/6W	
R015	1-249-437-11	CARBON 47K 5% 1/6W	
R016	1-249-437-11	CARBON 47K 5% 1/6W	
R017	1-247-873-00	CARBON 56K 5% 1/6W	
R018	1-249-425-11	CARBON 4.7K 5% 1/6W	
R019	1-249-425-11	CARBON 4.7K 5% 1/6W	
R020	1-247-831-00	CARBON 1K 5% 1/6W	
R022	1-247-863-00	CARBON 22K 5% 1/6W	
R023	1-247-823-00	CARBON 470 5% 1/6W	
R024	1-249-437-11	CARBON 47K 5% 1/6W	
R025	1-249-437-11	CARBON 47K 5% 1/6W	
R026	1-249-437-11	CARBON 47K 5% 1/6W	
R027	1-249-437-11	CARBON 47K 5% 1/6W	
R029	1-247-839-00	CARBON 2.2K 5% 1/6W	
R030	1-247-841-00	CARBON 2.7K 5% 1/6W	
R031	1-247-839-00	CARBON 2.2K 5% 1/6W	
R032	1-247-845-00	CARBON 3.9K 5% 1/6W	
R033	1-247-883-00	CARBON 150K 5% 1/6W	
R037	1-247-853-00	CARBON 8.2K 5% 1/6W	
R040	1-247-823-00	CARBON 470 5% 1/6W	
R042	1-247-831-00	CARBON 1K 5% 1/6W	
R043	1-247-863-00	CARBON 22K 5% 1/6W	
R045	1-247-831-00	CARBON 1K 5% 1/6W	
R050	1-247-839-00	CARBON 2.2K 5% 1/6W	
R051	1-247-839-00	CARBON 2.2K 5% 1/6W	
R052	1-247-841-00	CARBON 2.7K 5% 1/6W	
R054	1-247-837-00	CARBON 1.8K 5% 1/6W	
R055	1-247-804-00	CARBON 75 5% 1/6W	
R056	1-247-797-00	CARBON 39 5% 1/6W	
R057	1-247-797-00	CARBON 39 5% 1/6W	
R058	1-249-414-11	CARBON 560 5% 1/6W	
R059	1-247-845-00	CARBON 3.9K 5% 1/6W	
R060	1-247-821-00	CARBON 390 5% 1/6W	
R062	1-249-414-11	CARBON 560 5% 1/6W	
R063	1-247-817-00	CARBON 270 5% 1/6W	
R064	1-247-863-00	CARBON 22K 5% 1/6W	
R065	1-247-823-00	CARBON 470 5% 1/6W	
R066	1-247-833-00	CARBON 1.2K 5% 1/6W	
R067	1-247-805-00	CARBON 82 5% 1/6W	
R068	1-247-839-00	CARBON 2.2K 5% 1/6W	
R069	1-247-827-00	CARBON 680 5% 1/6W	
R070	1-247-883-00	CARBON 150K 5% 1/6W	
R072	1-247-815-00	CARBON 220 5% 1/6W	
R073	1-249-425-11	CARBON 4.7K 5% 1/6W	
R074	1-249-425-11	CARBON 4.7K 5% 1/6W	
R075	1-247-843-00	CARBON 3.3K 5% 1/6W	
R077	1-249-414-11	CARBON 560 5% 1/6W	
R079	1-249-419-11	CARBON 1.5K 5% 1/6W	
R080	1-247-863-00	CARBON 22K 5% 1/6W	
R083	1-247-817-00	CARBON 270 5% 1/6W	
R084	1-247-815-00	CARBON 220 5% 1/6W	
R101	1-247-809-00	CARBON 120 5% 1/6W	
R102	1-247-857-00	CARBON 12K 5% 1/6W	
R103	1-247-863-00	CARBON 22K 5% 1/6W	
R104	1-247-863-00	CARBON 22K 5% 1/6W	
R105	1-247-895-00	CARBON 470K 5% 1/6W	
R106	1-247-903-00	CARBON 1M 5% 1/6W	
R107	1-247-807-00	CARBON 100 5% 1/6W	
R108	1-249-429-11	CARBON 10K 5% 1/6W	
R110	1-247-869-00	CARBON 39K 5% 1/6W	
R111	1-247-859-00	CARBON 15K 5% 1/6W	
R113	1-247-833-00	CARBON 1.2K 5% 1/6W	
R114	1-249-425-11	CARBON 4.7K 5% 1/6W	
R122	1-247-829-00	CARBON 820 5% 1/6W	
R125	1-247-833-00	CARBON 1.2K 5% 1/6W	
R131	1-247-831-00	CARBON 1K 5% 1/6W	
R132	1-247-823-00	CARBON 470 5% 1/6W	
R133	1-247-831-00	CARBON 1K 5% 1/6W	
R134	1-247-821-00	CARBON 390 5% 1/6W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description				Remark
R135	1-247-821-00	CARBON	390	5%	1/6W	
R136	1-247-809-00	CARBON	120	5%	1/6W	
R137	1-247-817-00	CARBON	270	5%	1/6W	
R138	1-249-437-11	CARBON	47K	5%	1/6W	
R139	1-249-437-11	CARBON	47K	5%	1/6W	
R140	1-247-831-00	CARBON	1K	5%	1/6W	
R141	1-247-849-00	CARBON	5.6K	5%	1/6W	
R142	1-247-859-00	CARBON	15K	5%	1/6W	
R143	1-247-807-00	CARBON	100	5%	1/6W	
R144	1-247-791-00	CARBON	22	5%	1/6W	
R145	1-247-839-00	CARBON	2.2K	5%	1/6W	
R146	1-247-831-00	CARBON	1K	5%	1/6W	
R147	1-247-831-00	CARBON	1K	5%	1/6W	
R151	1-249-419-11	CARBON	1.5K	5%	1/6W	
R155	1-249-437-11	CARBON	47K	5%	1/6W	
R156	1-247-875-00	CARBON	68K	5%	1/6W	
R159	1-249-414-11	CARBON	560	5%	1/6W	
R161	1-247-823-00	CARBON	470	5%	1/6W	
R164	1-247-827-00	CARBON	680	5%	1/6W	
R165	1-249-425-11	CARBON	4.7K	5%	1/6W	
R168	1-249-425-11	CARBON	4.7K	5%	1/6W	
R173	1-249-419-11	CARBON	1.5K	5%	1/6W	
R174	1-247-849-00	CARBON	5.6K	5%	1/6W	
R175	1-247-827-00	CARBON	680	5%	1/6W	
R176	1-247-827-00	CARBON	680	5%	1/6W	
R178	1-247-831-00	CARBON	1K	5%	1/6W	
R179	1-247-895-00	CARBON	470K	5%	1/6W	
R180	1-249-434-11	CARBON	27K	5%	1/6W	
R181	1-247-831-00	CARBON	1K	5%	1/6W	
R182	1-249-429-11	CARBON	10K	5%	1/6W	
R183	1-249-432-11	CARBON	18K	5%	1/6W	
R184	1-247-879-00	CARBON	100K	5%	1/6W	
R185	1-247-841-00	CARBON	2.7K	5%	1/6W	
R186	1-247-859-00	CARBON	15K	5%	1/6W	
R187	1-247-867-00	CARBON	33K	5%	1/6W	
R190	1-249-432-11	CARBON	18K	5%	1/6W	
R200	1-247-867-00	CARBON	33K	5%	1/6W	
R201	1-247-823-00	CARBON	470	5%	1/6W	
R203	1-247-841-00	CARBON	2.7K	5%	1/6W	
R209	1-247-831-00	CARBON	1K	5%	1/6W	
R218	1-247-807-00	CARBON	100	5%	1/6W	
R219	1-247-839-00	CARBON	2.2K	5%	1/6W	
R220	1-247-831-00	CARBON	1K	5%	1/6W	
R221	1-247-831-00	CARBON	1K	5%	1/6W	
R222	1-247-859-00	CARBON	15K	5%	1/6W	
R223	1-247-827-00	CARBON	680	5%	1/6W	
R224	1-247-859-00	CARBON	15K	5%	1/6W	
R225	1-249-425-11	CARBON	4.7K	5%	1/6W	
R226	1-247-863-00	CARBON	22K	5%	1/6W	
R227	1-247-839-00	CARBON	2.2K	5%	1/6W	
R232	1-247-863-00	CARBON	22K	5%	1/6W	
R233	1-247-879-00	CARBON	100K	5%	1/6W	
R234	1-247-851-00	CARBON	6.8K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R235	1-247-839-00	CARBON	2.2K	5%	1/6W	
R236	1-249-437-11	CARBON	47K	5%	1/6W	
R237	1-249-437-11	CARBON	47K	5%	1/6W	
R238	1-249-425-11	CARBON	4.7K	5%	1/6W	
R239	1-247-831-00	CARBON	1K	5%	1/6W	
R240	1-249-425-11	CARBON	4.7K	5%	1/6W	
R248	1-247-885-00	CARBON	180K	5%	1/6W	
R251	1-249-429-11	CARBON	10K	5%	1/6W	
R253	1-249-425-11	CARBON	4.7K	5%	1/6W	
R254	1-249-437-11	CARBON	47K	5%	1/6W	
R261	1-247-831-00	CARBON	1K	5%	1/6W	
R262	1-247-841-00	CARBON	2.7K	5%	1/6W	
R264	1-247-831-00	CARBON	1K	5%	1/6W	
R265	1-247-823-00	CARBON	470	5%	1/6W	
R266	1-247-807-00	CARBON	100	5%	1/6W	
R267	1-247-827-00	CARBON	680	5%	1/6W	
R268	1-247-867-00	CARBON	33K	5%	1/6W	
R269	1-247-863-00	CARBON	22K	5%	1/6W	
R270	1-247-831-00	CARBON	1K	5%	1/6W	
R271	1-249-425-11	CARBON	4.7K	5%	1/6W	
R272	1-247-849-00	CARBON	5.6K	5%	1/6W	
R273	1-247-867-00	CARBON	33K	5%	1/6W	
R277	1-249-437-11	CARBON	47K	5%	1/6W	
R280	1-247-829-00	CARBON	820	5%	1/6W	
R282	1-247-863-00	CARBON	22K	5%	1/6W	
R284	1-247-831-00	CARBON	1K	5%	1/6W	
R285	1-247-841-00	CARBON	2.7K	5%	1/6W	
R286	1-247-815-00	CARBON	220	5%	1/6W	
R287	1-247-831-00	CARBON	1K	5%	1/6W	
R288	1-247-831-00	CARBON	1K	5%	1/6W	
R289	1-247-831-00	CARBON	1K	5%	1/6W	
R290	1-247-840-00	CARBON	2.4K	5%	1/6W	
R292	1-249-425-11	CARBON	4.7K	5%	1/6W	
R293	1-247-831-00	CARBON	1K	5%	1/6W	
R306	1-247-827-00	CARBON	680	5%	1/6W	
R307	1-247-827-00	CARBON	680	5%	1/6W	
R309	1-247-783-00	CARBON	10	5%	1/6W	
R310	1-247-831-00	CARBON	1K	5%	1/6W	
R311	1-247-831-00	CARBON	1K	5%	1/6W	
R312	1-247-873-00	CARBON	56K	5%	1/6W	
R400	1-247-831-00	CARBON	1K	5%	1/6W	
R401	1-249-419-11	CARBON	1.5K	5%	1/6W	
R402	1-249-429-11	CARBON	10K	5%	1/6W	
R403	1-247-803-00	CARBON	68	5%	1/6W	
R501	1-247-831-00	CARBON	1K	5%	1/6W	
R600	1-247-831-00	CARBON	1K	5%	1/6W	
R601	1-249-425-11	CARBON	4.7K	5%	1/6W	
R900	1-249-419-11	CARBON	1.5K	5%	1/6W	

VARIABLE RESISTOR

Ref.No	Part No.	Description	Remark
RV001	1-228-995-00	RES, ADJ, CARBON 22K	
RV002	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV003	1-228-995-00	RES, ADJ, CARBON 22K	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description	Remark
RV004	1-228-994-00	RES, ADJ, CARBON 10K	
RV005	1-228-995-00	RES, ADJ, CARBON 22K	
RV006	1-228-995-00	RES, ADJ, CARBON 22K	
RV100	1-228-995-00	RES, ADJ, CARBON 22K	
RV101	1-228-750-00	RES, ADJ, CARBON 47K	
RV102	1-228-998-00	RES, ADJ, CARBON 220K	
RV103	1-228-997-00	RES, ADJ, CARBON 100K	
RV201	1-228-990-00	RES, ADJ, CARBON 1K	
RV202	1-228-995-00	RES, ADJ, CARBON 22K	
RV203	1-228-989-00	RES, ADJ, CARBON 470	
RV204	1-228-994-00	RES, ADJ, CARBON 10K	
RV205	1-228-994-00	RES, ADJ, CARBON 10K	
RV206	1-228-995-00	RES, ADJ, CARBON 22K	

CRYSTAL

X100	1-567-442-11	VIBRATOR, CRYSTAL	
X200	1-567-146-11	VIBRATOR, CRYSTAL	
X201	1-567-345-11	VIBRATOR, CRYSTAL	

****

MISCELLANEOUS
****

	A-7090-029-A	M-SW ASSY	
	X-3686-549-1	L-SW ASSY	
	⚠1-464-471-11	BOOSTER MIXER, RF MODULATOR(AEP, E MODEL)	
	⚠1-464-617-11	CONVERTOR UNIT, DC-DC (E MODEL)	
	⚠1-534-817-XX	CORD, POWER (AEP, E MODEL)	
	1-535-535-11	TERMINAL, SHAFT GROUND	
	*1-555-110-00	CABLE, PIN	
Q301	⚠8-729-202-02	TRANSISTOR 2SB1015-Y	
C901	1-616-057-00	CAP,CERAMIC 0.033MFX	
M901	8-838-094-01	MOTOR, DC (BHF-2800C) (CAPSTAN)	
M903	8-835-110-01	MOTOR, DC (DNR-5301A) (CONTROL)	
M904	⚠A-7090-030-A	MOTOR ASSY, L	
PM901	⚠1-454-377-11	SOLENOID, PLUNGER	
S901	1-554-942-11	SWITCH, PUSH	
T901	⚠1-448-439-11	TRANSFORMER, POWER (E MODEL)	

****

ACCESSORIES AND PACKING MATERIALS
****

	A-6765-725-A	COMMANDER ASSY RMT-409	
	1-551-513-00	CORD ASSY, COAXIAL	
	1-557-848-21	CABLE, VIDEO MONITER	
	*3-689-589-01	CUSHION (UPPER)	
	*3-689-590-01	CUSHION (LOWER)	
	3-694-484-01	DRIVER, VOLUME	
	3-697-943-01	INDIVIDUAL CARTON (E MODEL)	
	3-701-628-00	BAG, POLYETHYLENE	
	3-706-268-71	MANUAL, INSTRUCTION (E MODEL)(English, French, Spanish)	
	3-706-268-81	MANUAL, INSTRUCTION (E MODEL)(ARABIC)	

****

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

EV-A300EC/UB

RMT-409

10b

SONY

SERVICE MANUAL

AEP Model
(EV-A300EC)
UK Model
(EV-A300UB)
September, 1986

SUPPLEMENT-4

- **The circuits have been changed. The circuits have been changed are the respective VI-9, SS-38, and TA-29 boards. Due to the circuit change of this time, NC-5 board has been added. In this supplement-4, schematic diagrams, mounting diagrams and parts list which have been changed are desaribed.**
- **File this Supplement-4 with the Service Manual.**

MICROFILM

VIDEO

10b

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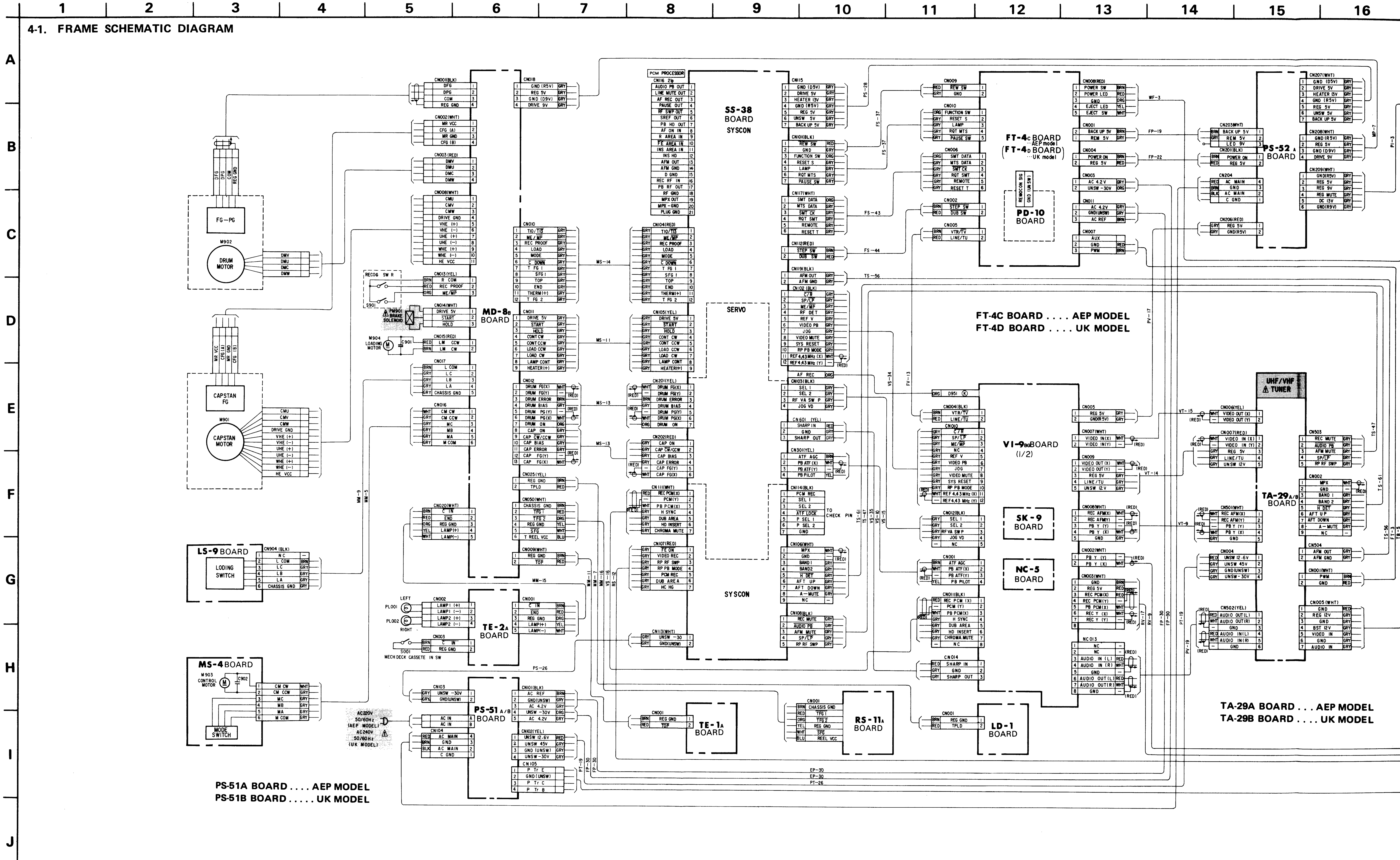
SECTION 4

SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

4-1. FRAME SCHEMATIC DIAGRAM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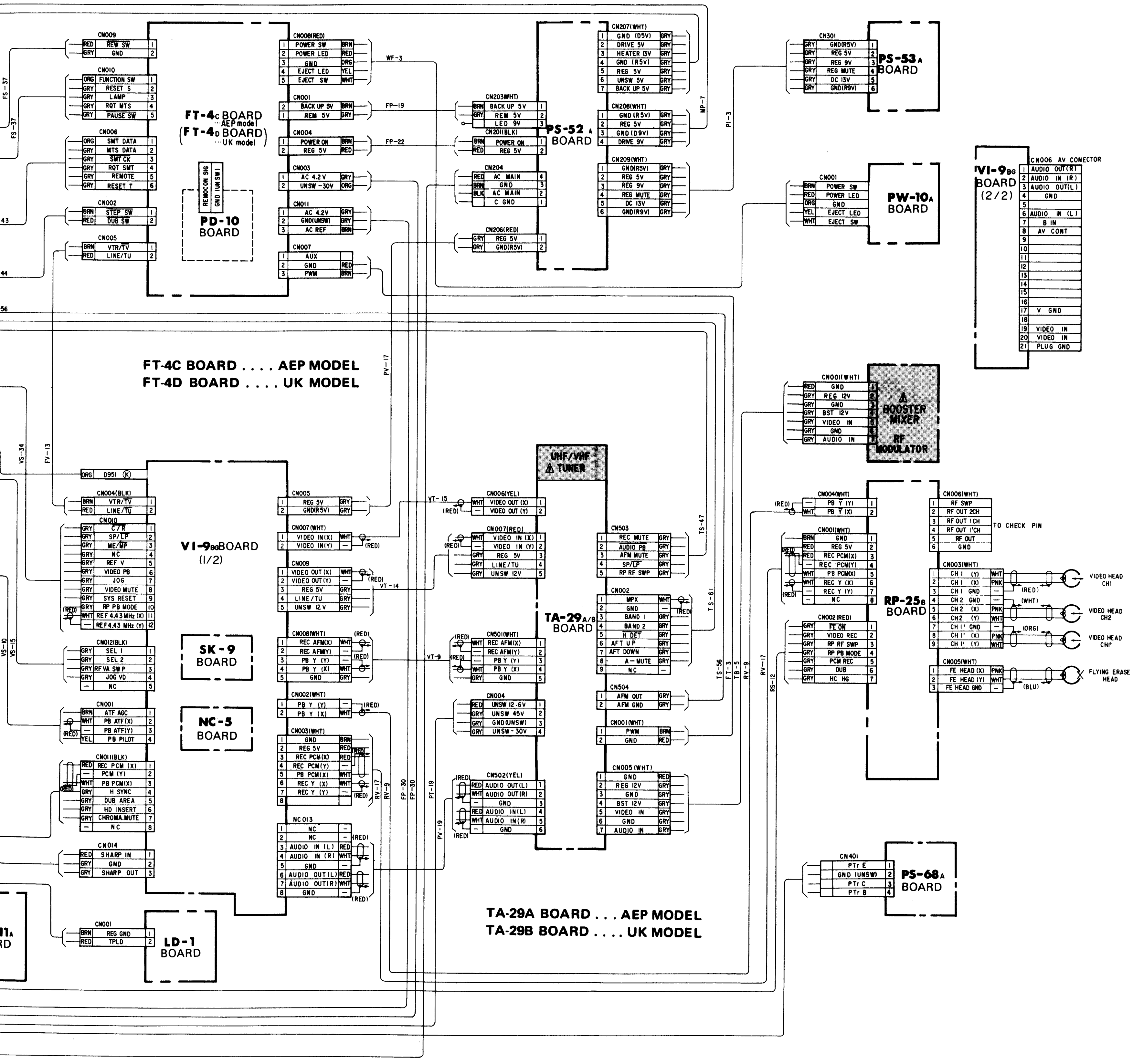
FG-PG
M902
DRUM MOTOR
CAPSTAN FG
M901
CAPSTAN MOTOR
REC06 SW R
S901
PM901 BRAKE SOLENOID
M904 LOADING MOTOR
C901
LS-9 BOARD
LODING SWITCH
CN904 (BLK)
MS-4 BOARD
M903 CONTROL MOTOR
C902
MODE SWITCH
MD-8B BOARD
CN001 (BLK)
CN002 (WHT)
CN003 (RED)
CN008 (WHT)
CN013 (YEL)
CN014 (WHT)
CN015 (RED)
CN017
CN016
CN020 (WHT)
CN018
CN010
CN011
CN012
CN025 (YEL)
CN050 (WHT)
CN009 (WHT)
MS-14
MS-11
MS-13
MM-9
MM-5
MM-15
TE-2A BOARD
LEFT
PL001
PL002
RIGHT
S001
MECH DECK CASSETE IN SW
PS-26
PS-51 A/B BOARD
AC220V 50/60Hz (AEP MODEL)
AC240V 50/60Hz (UK MODEL)
CN103
CN104
CN101 (BLK)
CN102 (YEL)
CN105
PT-19
FP-30
PCM PROCESSOR
CN116 21p
SS-38 BOARD
SYSCON
SERVO
SYSCON
CN104 (RED)
CN105 (YEL)
CN201 (YEL)
CN202 (RED)
CN111 (WHT)
CN107 (RED)
CN113 (WHT)
TE-1A BOARD
CN001
RS-11A BOARD
LD-1 BOARD
CN115
CN101 (BLK)
CN117 (WHT)
CN112 (RED)
CN119 (BLK)
CN102 (BLK)
CN103 (BLK)
CN601 (YEL)
CN301 (YEL)
CN114 (BLK)
TO CHECK PIN
CN106 (WHT)
CN108 (BLK)
PS-28
FS-37
FS-43
FS-44
TS-56
VS-34
FV-13
TS-61
TS-47
VS-35
VS-30
VS-15
FT-4C BOARD ··AEP model
(FT-4D BOARD) ··UK model
PD-10 BOARD
CN009
CN010
CN006
CN002
CN005
CN008 (RED)
CN001
CN004
CN003
CN011
CN007
WF-3
FP-19
FP-22
PV-17
FT-4C BOARD . . . . AEP MODEL
FT-4D BOARD . . . . UK MODEL
VI-9BB BOARD (1/2)
SK-9 BOARD
NC-5 BOARD
D951
CN004 (BLK)
CN010
CN012 (BLK)
CN001
CN011 (BLK)
CN014
CN005
CN007 (WHT)
CN009
CN008 (WHT)
CN002 (WHT)
CN003 (WHT)
NC013
VT-15
VT-14
VT-9
RV-17
RV-9
FP-30
PT-19
PV-19
PS-52 A BOARD
CN207 (WHT)
CN208 (WHT)
CN209 (WHT)
CN203 (WHT)
CN201 (BLK)
CN204
CN206 (RED)
MP-7
PI-3
UHF/VHF ⚠ TUNER
TA-29 A/B BOARD
CN006 (YEL)
CN007 (RED)
CN501 (WHT)
CN004
CN502 (YEL)
CN503
CN002
CN504
CN001 (WHT)
CN005 (WHT)
TS-56
TA-29A BOARD . . . AEP MODEL
TA-29B BOARD . . . . UK MODEL
EP-30
EP-30
PT-26
PS-51A BOARD . . . . AEP MODEL
PS-51B BOARD . . . . . UK MODEL


FT-4C BOARD ···AEP model
(FT-4D BOARD) ···UK model
PD-10 BOARD
FT-4C BOARD . . . . AEP MODEL
FT-4D BOARD . . . . UK MODEL
PS-52A BOARD
PS-53A BOARD
PW-10A BOARD
VI-9BG BOARD (2/2)
CN006 AV CONECTOR
BOOSTER MIXER RF MODULATOR
UHF/VHF TUNER
VI-9BG BOARD (1/2)
SK-9 BOARD
NC-5 BOARD
TA-29A/B BOARD
RP-25B BOARD
TO CHECK PIN
VIDEO HEAD CH1
VIDEO HEAD CH2
VIDEO HEAD CH1'
FLYING ERASE HEAD
LD-1 BOARD
PS-68A BOARD
TA-29A BOARD . . . AEP MODEL
TA-29B BOARD . . . . UK MODEL

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

FRAME **FRAME**

20	21	22	23	24	25

EO HEAD
CH1

O HEAD
CH2

O HEAD
CH1'

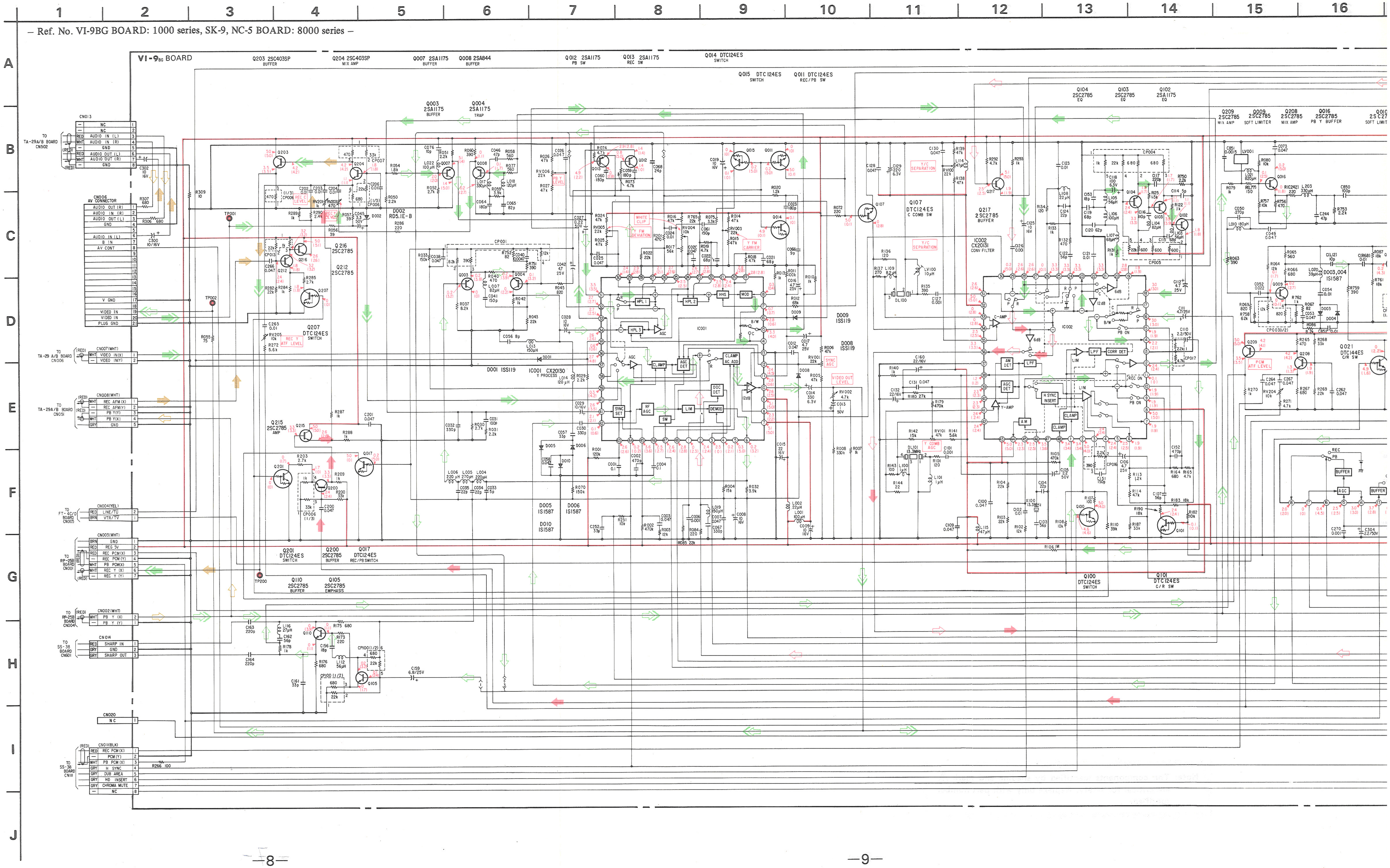
NG ERASE
HEAD

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

4-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

VI-9BG (VIDEO), SK-9 (VIDEO), NC-5 (NOISE CANCELER) SCHEMATIC DIAGRAM

– Ref. No. VI-9BG BOARD: 1000 series, SK-9, NC-5 BOARD: 8000 series –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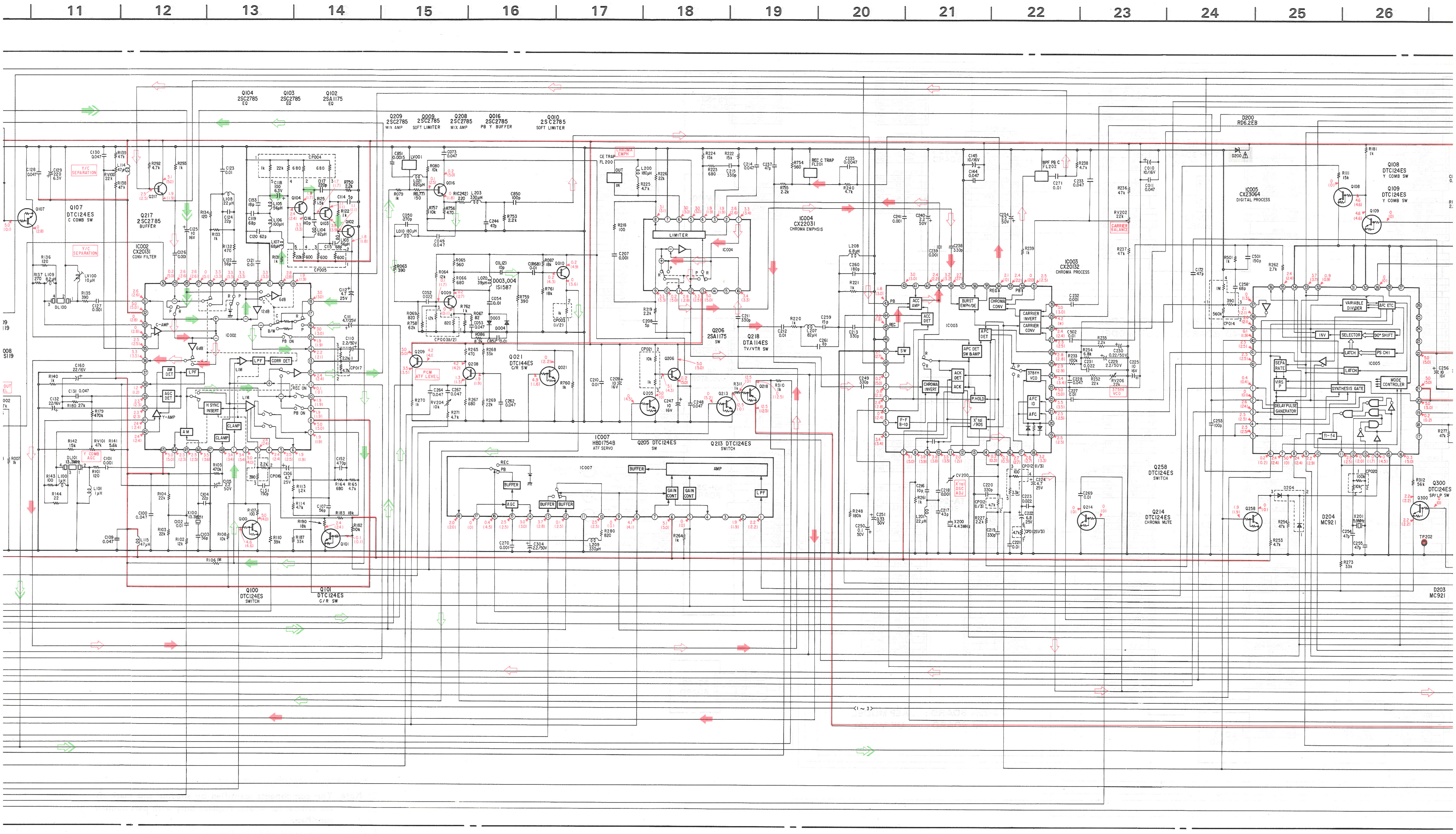
J
VI-9BG BOARD
Q203 2SC403SP BUFFER
Q204 2SC403SP MIX AMP
Q007 2SA1175 BUFFER
Q008 2SA844 BUFFER
Q012 2SA1175 PB SW
Q013 2SA1175 REC SW
Q014 DTC124ES SWITCH
Q015 DTC124ES SWITCH
Q011 DTC124ES REC/PB SW
Q003 2SA1175 BUFFER
Q004 2SA1175 TRAP
Q104 2SC2785 EQ
Q103 2SC2785 EQ
Q102 2SA1175 EQ
Q209 2SC2785 MIX AMP
Q009 2SC2785 SOFT LIMITER
Q208 2SC2785 MIX AMP
Q016 2SC2785 PB Y BUFFER
CN013
TO TA-29A/B BOARD CN502
CN006 AV CONNECTOR
Q216 2SC2785
Q212 2SC2785
Q207 DTC124ES SWITCH
Q107 DTC124ES C COMB SW
Q217 2SC2785 BUFFER
IC002 CX20131 CONV FILTER
D002 RD5.1E-B
D001 1SS119
IC001 CX20130 Y PROCESS
D009 1SS119
D008 1SS119
D005 1SS187
D006 1SS187
D010 1SS187
Q021 DTC144ES C/R SW
TO TA-29 A/B BOARD CN006
CN007(WHT)
CN008(WHT)
TO TA-29A/B BOARD CN051
Q215 2SC2785 AMP
Q201 DTC124ES SWITCH
Q200 2SC2785 BUFFER
Q017 DTC124ES REC/PB SWITCH
Q110 2SC2785 BUFFER
Q105 2SC2785 EMPHASIS
Q100 DTC124ES SWITCH
Q101 DTC124ES C/R SW
CN004(YEL)
TO FT-9C/D BOARD CN005
CN003(WHT)
TO RP-25B BOARD CN001
CN002(WHT)
TO RP-25B BOARD CN004
CN014
TO SS-38 BOARD CN601
CN020
CN011(BLK)
TO SS-38 BOARD CN111
TP001
TP002
TP200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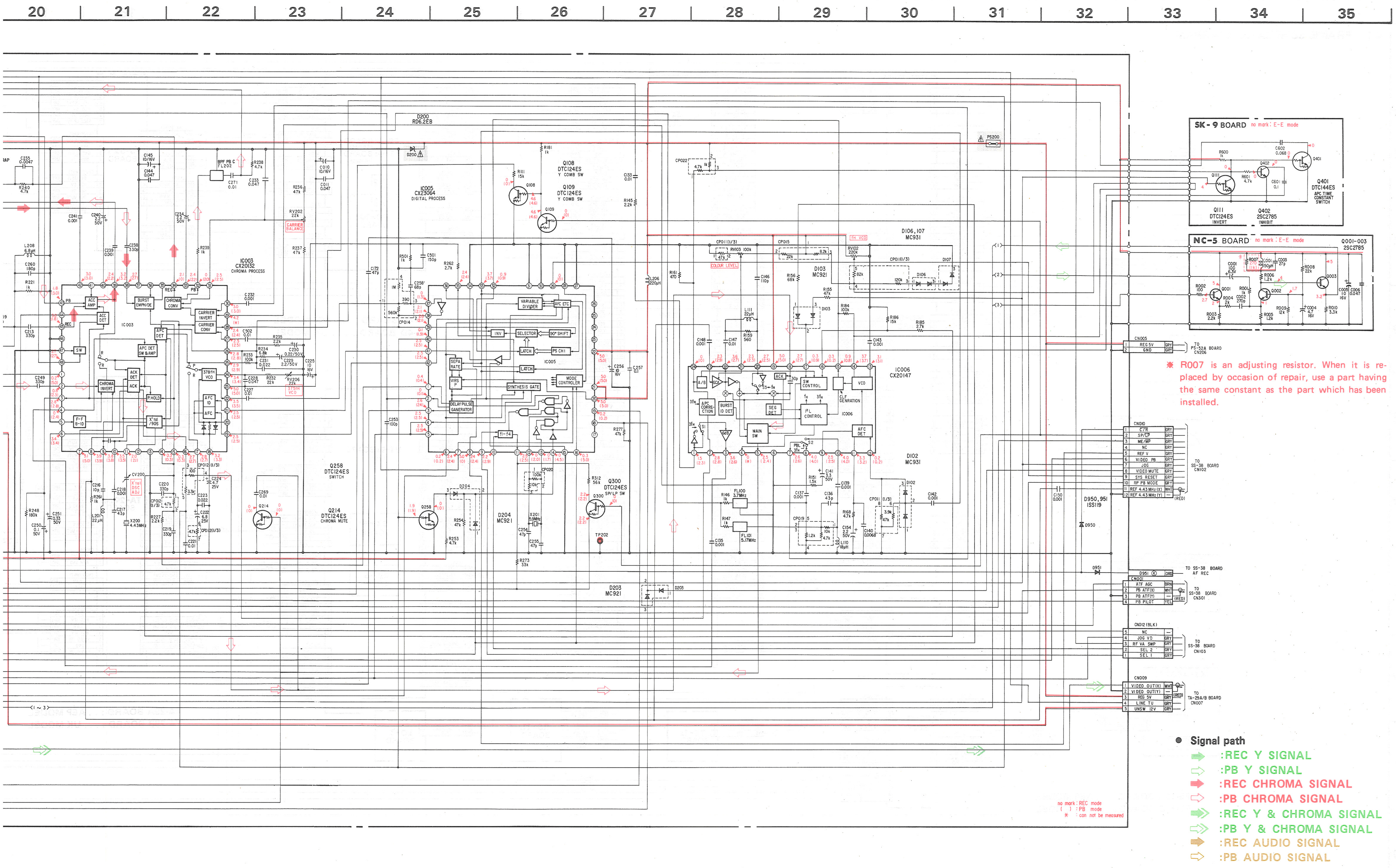
Q107 DTC124ES C COMB SW
Q217 2SC2785 BUFFER
Y/C SEPARATION
IC002 CX20131 CONV FILTER
Q104 2SC2785 EQ
Q103 2SC2785 EQ
Q102 2SA1175 EQ
Q209 2SC2785 MIX AMP
Q009 2SC2785 SOFT LIMITER
Q208 2SC2785 MIX AMP
Q016 2SC2785 PB Y BUFFER
Q010 2SC2785 SOFT LIMITER
CE TRAP FL200
CHROMA EMPH
REC C TRAP FL201
IC004 CX22031 CHROMA EMPHSIS
LIMITER
D003,004 1S1587
Q021 DTC144ES C/R SW
PCM ATF LEVEL
Q206 2SA1175 SW
Q218 DTA114ES TV/VTR SW
IC007 HBD1754B ATF SERVO
Q205 DTC124ES SW
Q213 DTC124ES SWITCH
BUFFER
AMP
AGC
GAIN CONT
LPF
IC003 CX20132 CHROMA PROCESS
IC005 CX23064 DIGITAL PROCESS
D200 RD6.2EB
Q108 DTC124ES Y COMB SW
Q109 DTC124ES Y COMB SW
CARRIER BALANCE
ACC AMP
ACC DET
BURST EMPH/DE
CHROMA CONV
CARRIER INVERT
CARRIER CONV
APC DET
APC DET SW BAMP
ACK DET
CHROMA INVERT
P.HOLD
X'tal /905
F-F 8-10
378fH VCO
AFC ID
AFC
375fH VCO
VARIABLE DIVIDER
AFC ETC
SELECTOR
90° SHIFT
INV
LATCH
PS CH1
SEPA RATE
SYNTHESIS GATE
MODE CONTROLER
DELAY PULSE GENERATOR
Q258 DTC124ES SWITCH
Q214 DTC124ES CHROMA MUTE
D204 MC921
Q300 DTC124ES SP/LP SW
TP202
D203 MC921
Q100 DTC124ES SWITCH
Q101 DTC124ES C/R SW
C-AMP
Y-AMP
AM DET
AGC DET
H SYNC INSERT
CLAMP
CORR DET
B/W
PB ON
REC ON
X'tal OSC ADJ
X200 4.43MHz
X201 5.5MHz
DL100
DL101 13.3MHz
X100 13.3MHz
(1 ~ 3)


20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
IC003 CX20132 CHROMA PROCESS
IC005 CX23064 DIGITAL PROCESS
IC006 CX20147
D200 RD6.2EB
Q108 DTC124ES Y COMB SW
Q109 DTC124ES Y COMB SW
Q258 DTC124ES SWITCH
Q214 DTC124ES CHROMA MUTE
Q300 DTC124ES SP/LP SW
D106, 107 MC931
D103 MC921
D102 MC931
D204 MC921
D203 MC921
D950, 951 ISS119
BPF PB C FL202
CARRIER BALANCE
COLOUR LEVEL
FH VCO
PS200
TP202
SK-9 BOARD
Q111 DTC124ES INVERT
Q402 2SC2785 INHIBIT
Q401 DTC144ES APC TIME CONSTANT SWITCH
NC-5 BOARD
Q001-003 2SC2785
CN005
REG 5V
GND
TO PS-52A BOARD CN206
CN010
C7R
SP/LP
ME/MP
NC
REF V
VIDEO PB
JOG
VIDEO MUTE
SYS RESET
RP PB MODE
REF 4.43MHz (X)
REF 4.43MHz (Y)
TO SS-38 BOARD CN102
D951
TO SS-38 BOARD AF REC
CN001
ATF AGC
PB ATF(X)
PB ATF(Y)
PB PILOT
TO SS-38 BOARD CN301
CN012 (BLK)
NC
JOG VD
RF VA SWP
SEL 2
SEL 1
TO SS-38 BOARD CN103
CN009
VIDEO OUT(X)
VIDEO OUT(Y)
REG 5V
LINE TU
UNSW 12V
TO TA-29A/B BOARD CN007

∗ R007 is an adjusting resistor. When it is replaced by occasion of repair, use a part having the same constant as the part which has been installed.

no mark : REC mode
( ) : PB mode
∗ : can not be measured

- **Signal path**

➡	:REC Y SIGNAL
⇨	:PB Y SIGNAL
➡	:REC CHROMA SIGNAL
⇨	:PB CHROMA SIGNAL
➡	:REC Y & CHROMA SIGNAL
⇨	:PB Y & CHROMA SIGNAL
➡	:REC AUDIO SIGNAL
⇨	:PB AUDIO SIGNAL

VI-9BG (VIDEO), SK-9 (VIDEO), NC-5 (NOISE CANCELER) PRINTED WIRING BOARD

– Ref. No. VI-9BG BOARD: 1000 series, SK-9, NC-5 BOARD: 8000 series –

Note (Schematic Diagrams):

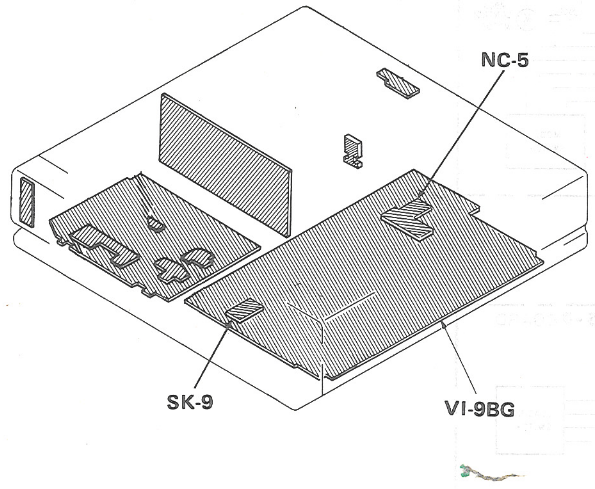
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- ▬ : B + bus.
- ☐ : adjustment for repair.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

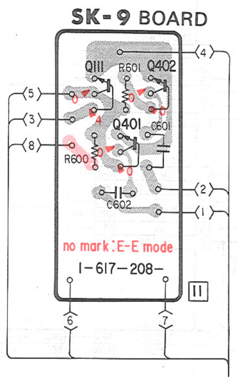
When indicating parts by reference number, please include the board name.

Note (Printed Wiring Boards):

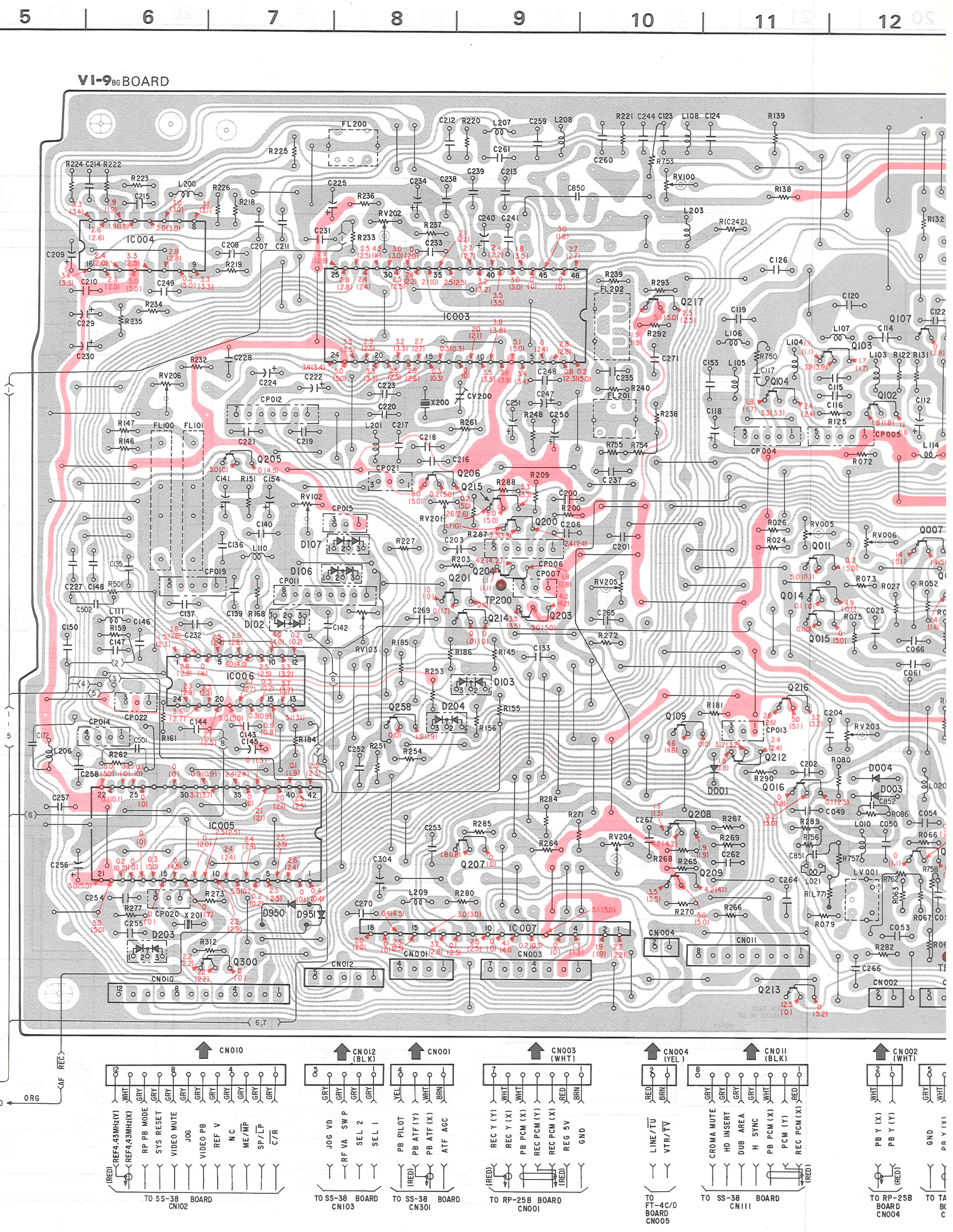
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- ▨ : B + pattern.
- Digital transistor (VI-9BG: 011, 014, 015, 017, 021, 100, 101, 107, 108, 109, 201, 205, 207, 213, 214, 218, 258, 300) transistor with resistors. Refer to the VI-9BG board schematic diagram for digital transistor.
- Digital transistor (SK-9: Q111, 401) transistor with resistors. Refe to the SK-9 board schematic diagram for digital transistor.

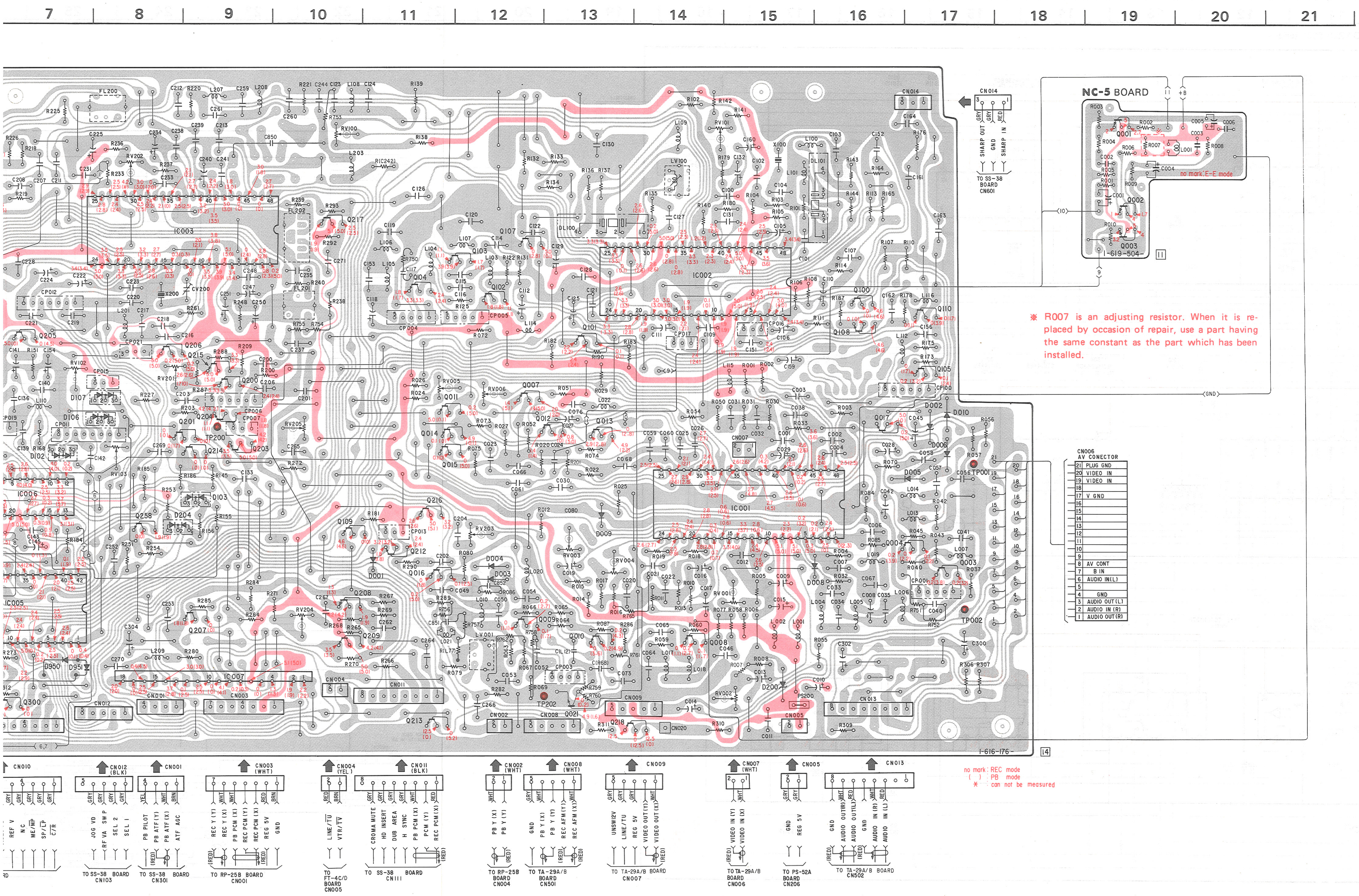

NC-5
SK-9
VI-9BG

IC, Q	D	ADJ	TP
		101	
		100	
		202 LV100	
IC004			
IC003			
217			
107			
IC002			
103			
		206	
104			
102 100		CV200	
110			
205 101 108			
206			
215		201 102	
105			
200			
007	107	005 006	
	010		
011			
	106		
204	002		
012 013 017		205	
			200
201 014 015			
		103	
			001
203 214	102 006		
	005		
IC006			
	103		
IC001	009		
216			
258	204	203	
109 212 004		003	
	001 008 004 003	004	
016 003			
		001	
IC005 208			
207 009		204	002
010 008		LV001	
209			
	950 951		
IC007	200		
			202
	203	002	
300			
021 213 218			
IC, Q	D	ADJ	TP


SK-9 BOARD
Q111
R601
Q402
Q401
C601
R600
C602
no mark : E-E mode
1-617-208-
11
(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

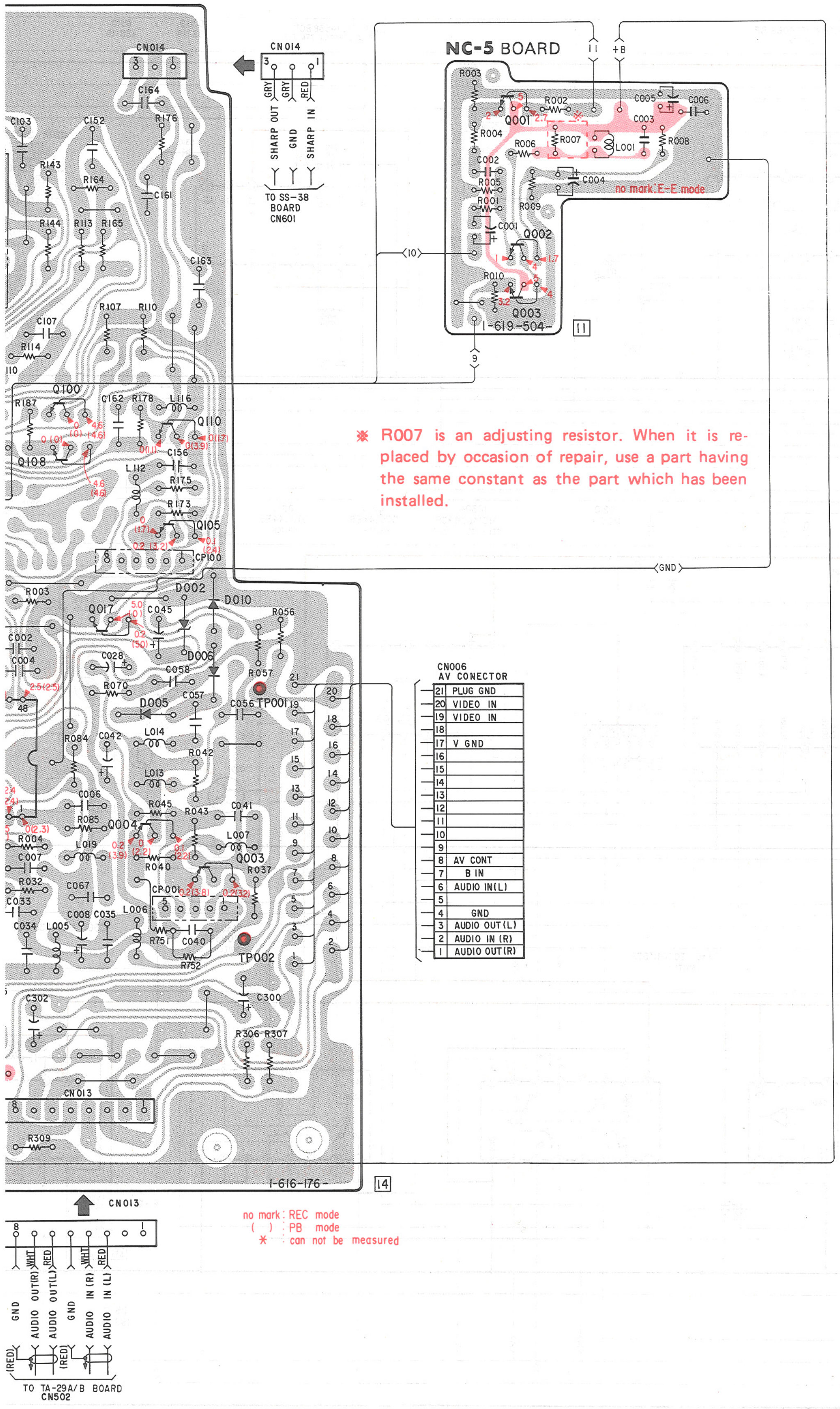
TO SS-38 BOARD AF REC ← ORG


1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I J
VI-9BG BOARD
IC001
IC002
IC003
IC004
IC005
IC006
IC007
TP200
X200
FL200
FL100
FL101
FL201
FL202
CV200
LV001
LV100
RV100
RV102
RV201
RV202
RV203
RV204
RV205
RV206
RV005
RV006
RV103
CP012
CP021
CP015
CP006
CP007
CP004
CP005
CP013
CP019
CP020
CP022
CN010
CN012
CN001
CN003
CN004
CN011
CN002
AF REC
6,7
CN010
REF4.43MHz(Y)
REF4.43MHz(X)
RP PB MODE
SYS RESET
VIDEO MUTE
JOG
VIDEO PB
REF V
N C
ME/MP
SP/LP
C/R
WHT
GRY
(RED)
TO SS-38 BOARD CN102
CN012 (BLK)
JOG VD
RF VA SWP
SEL 2
SEL 1
TO SS-38 BOARD CN103
CN001
PB PILOT
PB ATF (Y)
PB ATF (X)
ATF AGC
YEL
BRN
TO SS-38 BOARD CN301
CN003 (WHT)
REC Y (Y)
REC Y (X)
PB PCM (X)
REC PCM (Y)
REC PCM (X)
REG 5V
GND
RED
TO RP-25B BOARD CN001
CN004 (YEL)
LINE/TU
VTR/TV
TO FT-4C/D BOARD CN005
CN011 (BLK)
CROMA MUTE
HD INSERT
DUB AREA
H SYNC
PB PCM (X)
PCM (Y)
REC PCM (X)
TO SS-38 BOARD CN111
CN002 (WHT)
PB Y (X)
PB Y (Y)
TO RP-25B BOARD CN004


7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
NC-5 BOARD
1-619-504-
1-616-176-
14
CN006 AV CONECTOR
21 PLUG GND
20 VIDEO IN
19 VIDEO IN
17 V GND
8 AV CONT
7 B IN
6 AUDIO IN(L)
4 GND
3 AUDIO OUT(L)
2 AUDIO IN(R)
1 AUDIO OUT(R)
IC001
IC002
IC003
IC005
IC006
IC007
TO SS-38 BOARD CN601
TO SS-38 BOARD CN103
TO SS-38 BOARD CN301
TO RP-25B BOARD CN001
TO FT-4C/D BOARD CN005
TO SS-38 BOARD CN111
TO RP-25B BOARD CN004
TO TA-29A/B BOARD CN501
TO TA-29A/B BOARD CN007
TO TA-29A/B BOARD CN006
TO PS-52A BOARD CN206
TO TA-29A/B BOARD CN502
no mark: E-E mode

※ R007 is an adjusting resistor. When it is replaced by occasion of repair, use a part having the same constant as the part which has been installed.

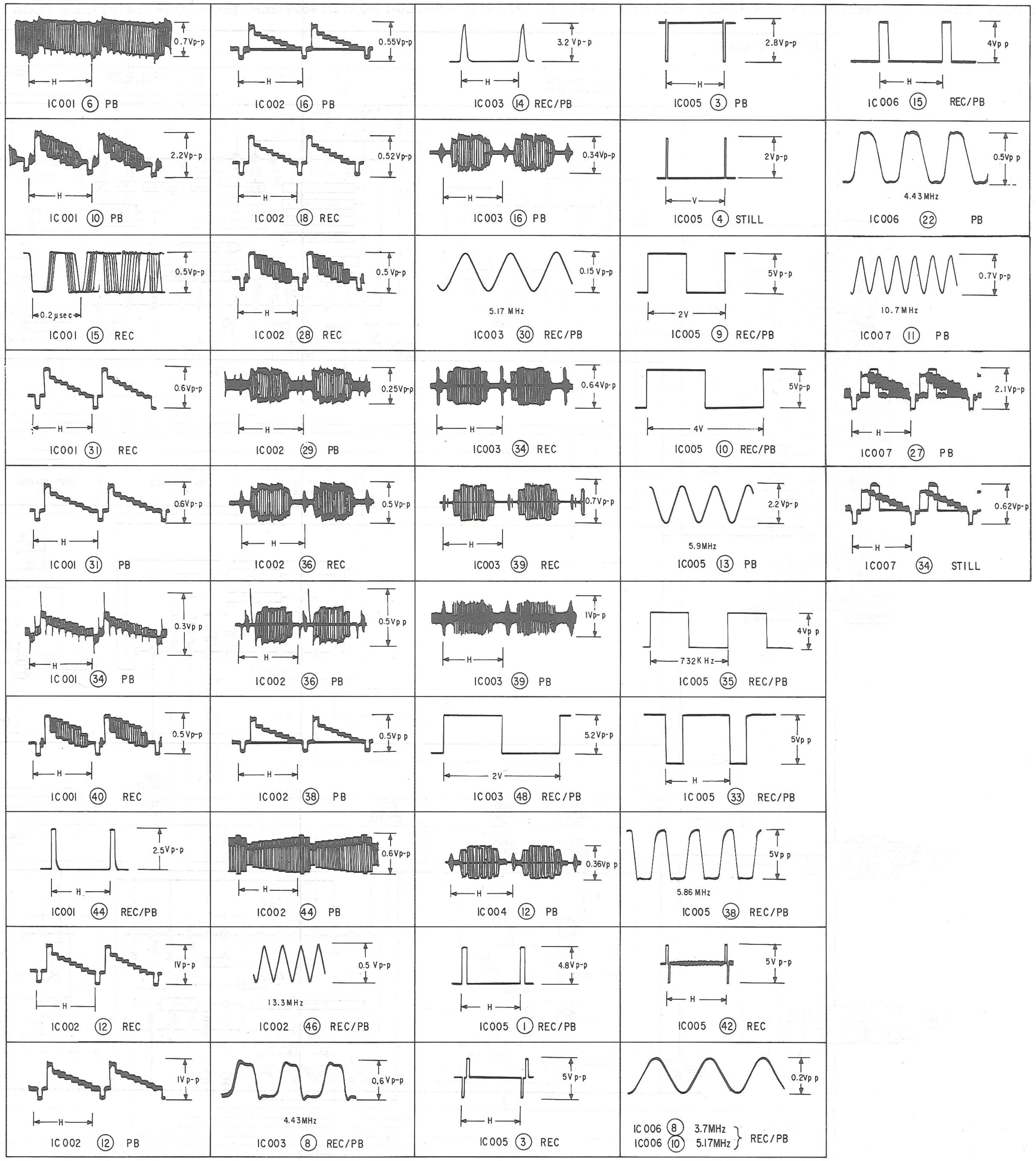
no mark : REC mode
( ) : PB mode
* : can not be measured


CN014
GRY
GRY
RED
SHARP OUT
GND
SHARP IN
TO SS-38 BOARD CN601
NC-5 BOARD
R003
Q001
R002
C005
C006
C003
R004
R006
R007
L001
R008
C002
R005
C004
R001
R009
C001
Q002
R010
Q003
1-619-504-
11
no mark: E-E mode
+B
GND
Q100
Q110
Q108
Q105
Q017
D002
D010
D005
D006
TP001
TP002
Q004
Q003
CP001
CN006 AV CONECTOR
21 PLUG GND
20 VIDEO IN
19 VIDEO IN
18
17 V GND
16
15
14
13
12
11
10
9
8 AV CONT
7 B IN
6 AUDIO IN(L)
5
4 GND
3 AUDIO OUT(L)
2 AUDIO IN (R)
1 AUDIO OUT(R)
1-616-176-
14
CN013
GND
AUDIO OUT(R)
AUDIO OUT(L)
GND
AUDIO IN (R)
AUDIO IN (L)
WHT
RED
WHT
RED
(RED)
(RED)
TO TA-29A/B BOARD CN502

✻ R007 is an adjusting resistor. When it is replaced by occasion of repair, use a part having the same constant as the part which has been installed.

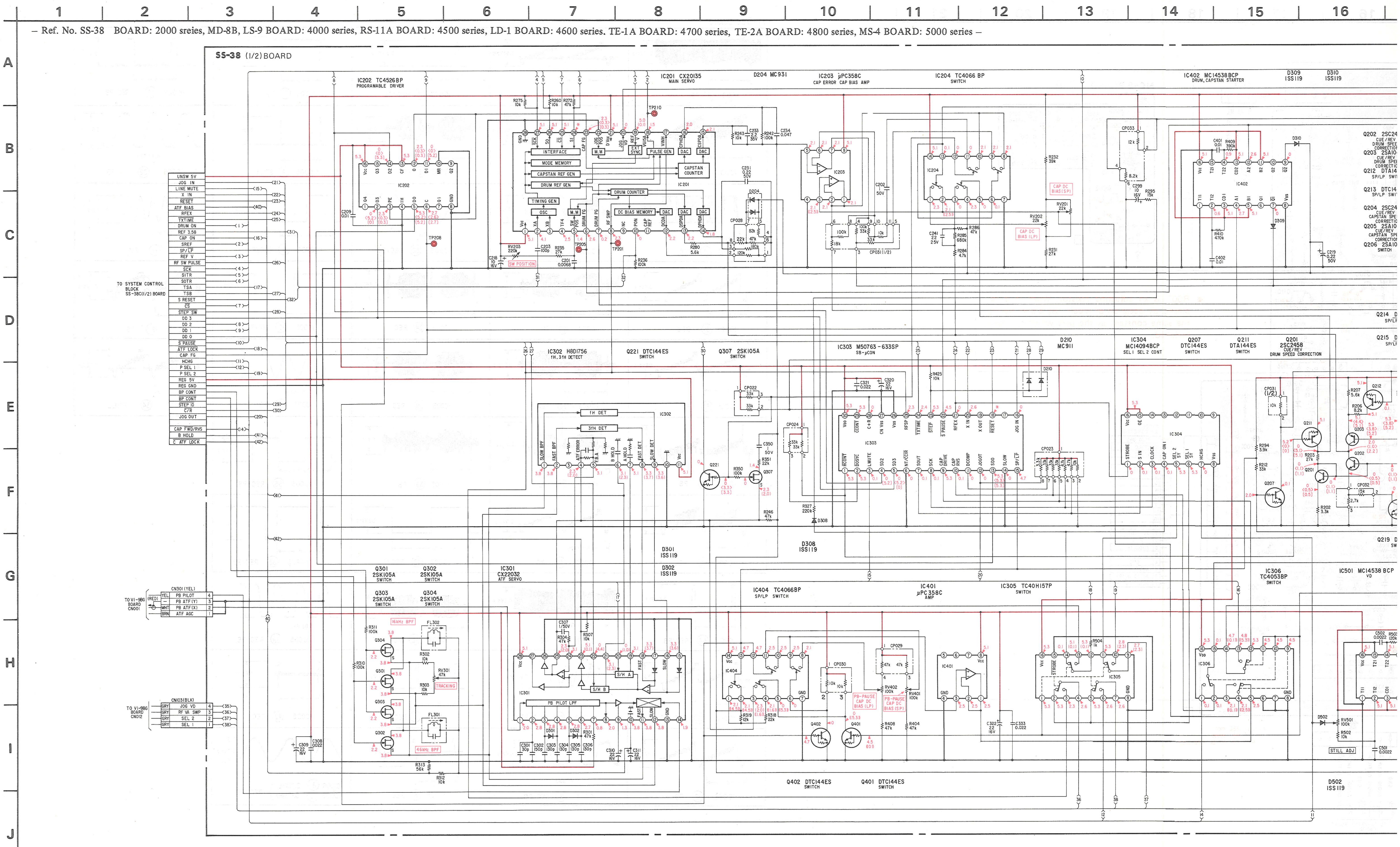
no mark : REC mode
( ) : PB mode
✻ : can not be measured

VI-9BG BOARD

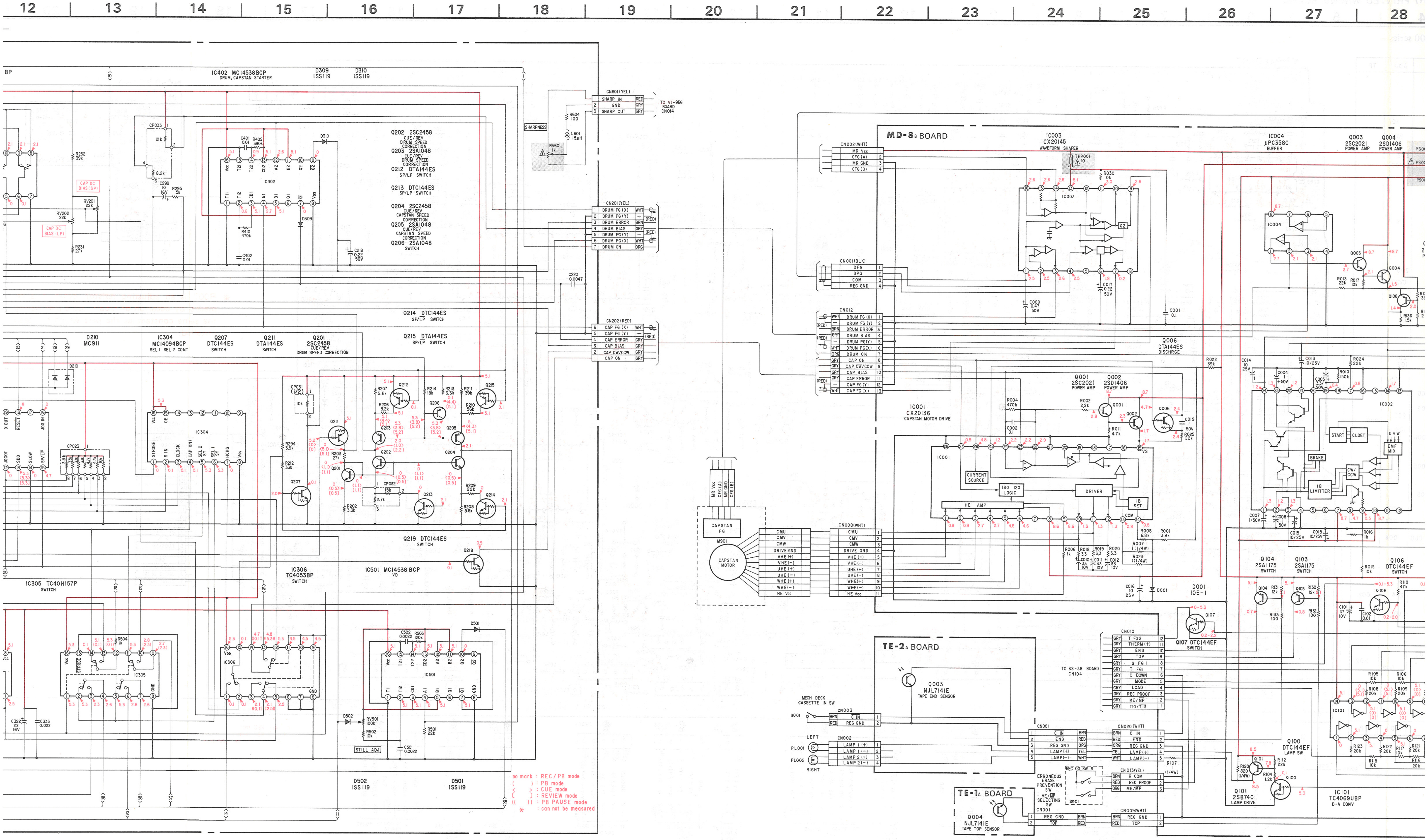

0.7Vp-p
H
IC001 ⑥ PB
0.55Vp-p
H
IC002 ⑯ PB
3.2 Vp-p
H
IC003 ⑭ REC/PB
2.8Vp-p
H
IC005 ③ PB
4Vp p
H
IC006 ⑮ REC/PB
2.2Vp-p
H
IC001 ⑩ PB
0.52Vp-p
H
IC002 ⑱ REC
0.34Vp-p
H
IC003 ⑯ PB
2Vp-p
V
IC005 ④ STILL
0.5Vp p
4.43MHz
IC006 ㉒ PB
0.5Vp-p
0.2μsec
IC001 ⑮ REC
0.5 Vp-p
H
IC002 ㉘ REC
0.15 Vp-p
5.17 MHz
IC003 ㉚ REC/PB
5Vp-p
2V
IC005 ⑨ REC/PB
0.7V p-p
10.7MHz
IC007 ⑪ PB
0.6Vp-p
H
IC001 ㉛ REC
0.25Vp-p
H
IC002 ㉙ PB
0.64Vp-p
H
IC003 ㉞ REC
5Vp-p
4V
IC005 ⑩ REC/PB
2.1Vp-p
H
IC007 ㉗ PB
0.6Vp-p
H
IC001 ㉛ PB
0.5Vp-p
H
IC002 ㊱ REC
0.7Vp-p
H
IC003 ㊴ REC
2.2Vp-p
5.9MHz
IC005 ⑬ PB
0.62Vp-p
H
IC007 ㉞ STILL
0.3Vp p
H
IC001 ㉞ PB
0.5Vp p
H
IC002 ㊱ PB
1Vp-p
H
IC003 ㊴ PB
4Vp p
732KHz
IC005 ㉟ REC/PB
0.5Vp-p
H
IC001 ㊵ REC
0.5Vp p
H
IC002 ㊳ PB
5.2Vp-p
2V
IC003 ㊽ REC/PB
5Vp p
H
IC005 ㉝ REC/PB
2.5Vp-p
H
IC001 ㊹ REC/PB
0.6Vp-p
H
IC002 ㊹ PB
0.36Vp p
H
IC004 ⑫ PB
5Vp p
5.86MHz
IC005 ㊳ REC/PB
1Vp-p
H
IC002 ⑫ REC
0.5 Vp-p
13.3MHz
IC002 ㊻ REC/PB
4.8Vp-p
H
IC005 ① REC/PB
5V p-p
H
IC005 ㊷ REC
1Vp-p
H
IC002 ⑫ PB
0.6Vp-p
4.43MHz
IC003 ⑧ REC/PB
5Vp-p
H
IC005 ③ REC
0.2Vp p
IC006 ⑧ 3.7MHz
IC006 ⑩ 5.17MHz
REC/PB

SS-38 (SERVO/SYSTEM CONTROL), MD-8B (MOTOR DRIVE), RS-11A (REEL SENSOR), TE-1A (TAPE END SENSOR), TE-2A (TAEP END SENSOR), MS-4 (MODE SWITCH), LS-9 (LOADING SWITCH), LD-1 (TAPE SENSOR) SCHEMATIC DIAGRAM

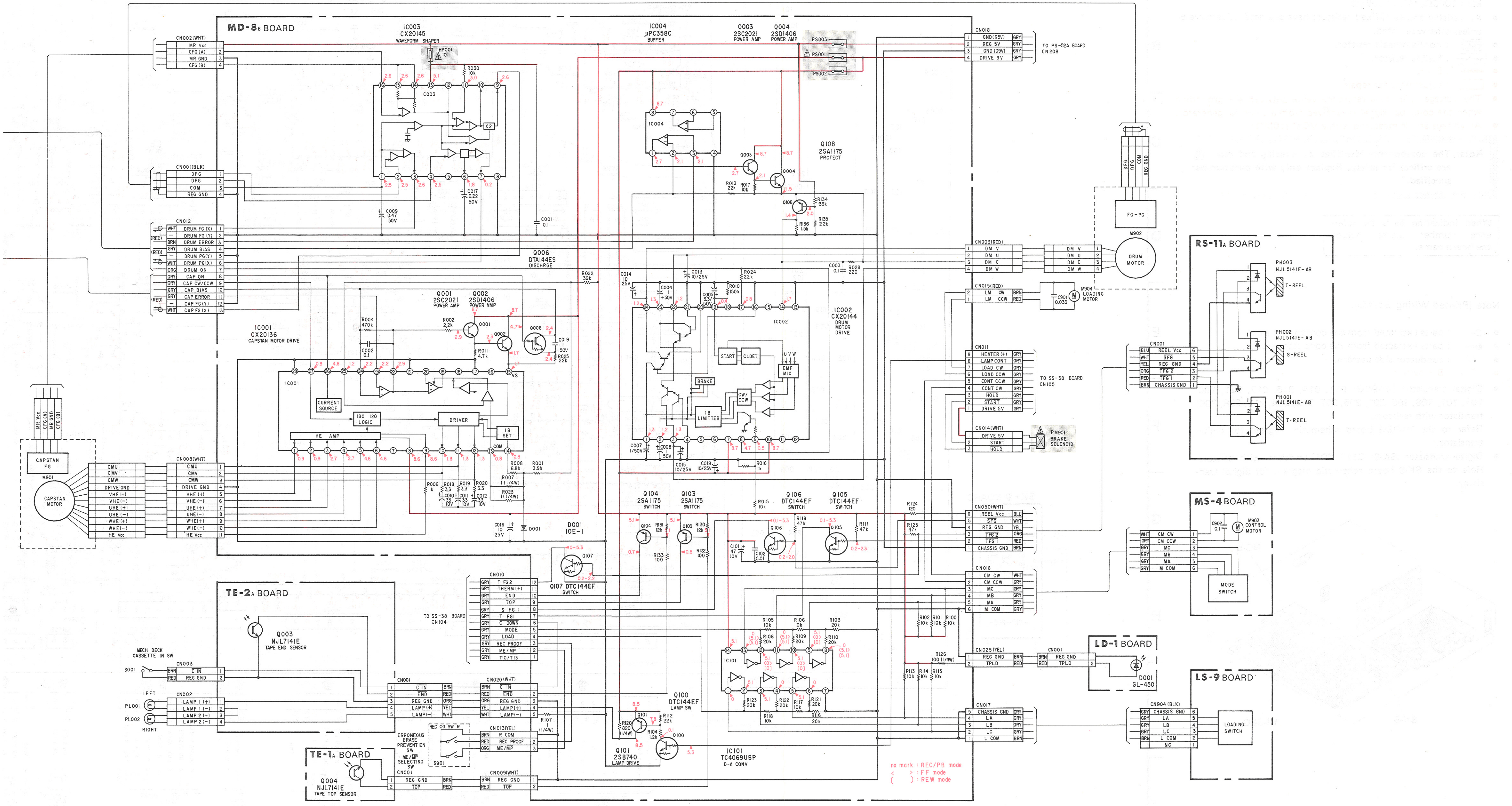
– Ref. No. SS-38 BOARD: 2000 sreies, MD-8B, LS-9 BOARD: 4000 series, RS-11A BOARD: 4500 series, LD-1 BOARD: 4600 series, TE-1A BOARD: 4700 series, TE-2A BOARD: 4800 series, MS-4 BOARD: 5000 series –


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
SS-38 (1/2) BOARD
IC202 TC4526BP PROGRAMABLE DRIVER
IC201 CX20135 MAIN SERVO
D204 MC931
IC203 μPC358C CAP ERROR CAP BIAS AMP
IC204 TC4066BP SWITCH
IC402 MC14538BCP DRUM, CAPSTAN STARTER
D309 ISS119
D310 ISS119
INTERFACE
MODE MEMORY
CAPSTAN REF GEN
DRUM REF GEN
TIMING GEN
OSC
DRUM COUNTER
DC BIAS MEMORY
CAPSTAN COUNTER
PULSE GEN
DAC
EXT SYNC
SW POSITION
CAP DC BIAS (SP)
CAP DC BIAS (LP)
TO SYSTEM CONTROL BLOCK SS-38 (1/2) BOARD
UNSW 5V
JOG IN
LINE MUTE
X IN
RESET
ATF BIAS
RFEX
TXTIME
DRUM ON
REF 3.58
CAP ON
SREF
SP/LP
REF V
RF SW PULSE
SCK
SITR
SOTR
TSA
TSB
S RESET
CS
STEP SW
DD 3
DD 2
DD 1
DD 0
S PAUSE
ATF LOCK
CAP FG
HCHG
P SEL 1
P SEL 2
REG 5V
REG GND
BP CONT
BP CONT
STEP IC
C/B
JOG OUT
CAP FWD/RVS
B HOLD
C ATF LOCK
IC302 H8D1756 fH, 3fH DETECT
fH DET
3fH DET
Q221 DTC144ES SWITCH
Q307 2SK105A SWITCH
IC303 M50763-633SP SB-μCON
D210 MC911
IC304 MC14094BCP SEL 1 SEL 2 CONT
Q207 DTC144ES SWITCH
Q211 DTA144ES SWITCH
Q201 2SC2458 CUE/REV DRUM SPEED CORRECTION
Q202 2SC24
Q203 2SA10
Q212 DTA14
Q213 DTC14
Q204 2SC24
Q205 2SA10
Q206 2SA10
Q214
Q215
Q219
D301 ISS119
D302 ISS119
D308 ISS119
Q301 2SK105A SWITCH
Q302 2SK105A SWITCH
Q303 2SK105A SWITCH
Q304 2SK105A SWITCH
IC301 CX22032 ATF SERVO
16kHz BPF
46kHz BPF
TRACKING
PB PILOT LPF
S/H A
S/H B
CN301 (YEL)
TO VI-98G BOARD CN001
PB PILOT
PB ATF (Y)
PB ATF (X)
ATF AGC
CN103 (BLK)
TO VI-98G BOARD CN012
JOG VD
RF VA SWP
SEL 2
SEL 1
IC404 TC4066BP SP/LP SWITCH
IC401 μPC358C AMP
IC305 TC40H157P SWITCH
IC306 TC4053BP SWITCH
IC501 MC14538 BCP VD
PB-PAUSE CAP DC BIAS (LP)
PB-PAUSE CAP DC BIAS (SP)
Q402 DTC144ES SWITCH
Q401 DTC144ES SWITCH
D502 ISS119
STILL ADJ

ADING SWITCH), LD-1 (TAPE SENSOR) SCHEMATIC DIAGRAM


12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
IC402 MC14538BCP
DRUM, CAPSTAN STARTER
D309 ISS119
D310 ISS119
CN601 (YEL)
SHARP IN
GND
SHARP OUT
TO VI-98G BOARD CN014
SHARPNESS
RV601 1k
R604 100
L601 15μH
Q202 2SC2458 CUE/REV DRUM SPEED CORRECTION
Q203 2SA1048 CUE/REV DRUM SPEED CORRECTION
Q212 DTA144ES SP/LP SWITCH
Q213 DTC144ES SP/LP SWITCH
Q204 2SC2458 CUE/REV CAPSTAN SPEED CORRECTION
Q205 2SA1048 CUE/REV CAPSTAN SPEED CORRECTION
Q206 2SA1048 SWITCH
CN201 (YEL)
DRUM FG (X)
DRUM FG (Y)
DRUM ERROR
DRUM BIAS
DRUM PG (Y)
DRUM PG (X)
DRUM ON
CN202 (RED)
CAP FG (X)
CAP FG (Y)
CAP ERROR
CAP BIAS
CAP CW/CCW
CAP ON
Q214 DTC144ES SP/LP SWITCH
Q215 DTA144ES SP/LP SWITCH
D210 MC911
IC304 MC14094BCP SEL1 SEL2 CONT
Q207 DTC144ES SWITCH
Q211 DTA144ES SWITCH
Q201 2SC2458 CUE/REV DRUM SPEED CORRECTION
CAP DC BIAS (SP)
CAP DC BIAS (LP)
RV201 22k
RV202 22k
Q219 DTC144ES SWITCH
IC305 TC40H157P SWITCH
IC306 TC4053BP SWITCH
IC501 MC14538BCP VD
STILL ADJ
RV501 100k
D502 ISS119
D501 ISS119
MD-8B BOARD
CN002 (WHT)
MR Vcc
CFG (A)
MR GND
CFG (B)
IC003 CX20145 WAVEFORM SHAPER
THP001
CN001 (BLK)
DFG
DPG
COM
REG GND
CN012
IC004 μPC358C BUFFER
Q003 2SC2021 POWER AMP
Q004 2SD1406 POWER AMP
Q006 DTA144ES DISCHRGE
Q001 2SC2021 POWER AMP
Q002 2SD1406 POWER AMP
IC001 CX20136 CAPSTAN MOTOR DRIVE
CURRENT SOURCE
180 120 LOGIC
DRIVER
HE AMP
IB SET
IC002
START
CLDET
BRAKE
CW/CCW
EMF MIX
IB LIMITTER
CAPSTAN FG
M901
CAPSTAN MOTOR
CN008 (WHT)
D001 10E-1
Q104 2SA1175 SWITCH
Q103 2SA1175 SWITCH
Q106 DTC144EF SWITCH
Q107 DTC144EF SWITCH
TE-2A BOARD
Q003 NJL7141E TAPE END SENSOR
TO SS-38 BOARD CN104
CN010
T FG2
THERM (+)
END
TOP
S FG1
T FG1
C DOWN
MODE
LOAD
REC PROOF
ME/MP
T10/T13
MECH DECK CASSETTE IN SW
S001
CN003
C IN
REG GND
LEFT
RIGHT
PL001
PL002
CN002
LAMP 1 (+)
LAMP 1 (-)
LAMP 2 (+)
LAMP 2 (-)
CN001
CN020 (WHT)
ERRONEOUS ERASE PREVENTION SW
ME/MP SELECTING SW
S901
CN013 (YEL)
R COM
REC PROOF
ME/MP
TE-1A BOARD
Q004 NJL7141E TAPE TOP SENSOR
CN009 (WHT)
Q100 DTC144EF LAMP SW
Q101 2SB740 LAMP DRIVE
IC101 TC4069UBP D-A CONV

no mark : REC/PB mode
( ) : PB mode
< > : CUE mode
[ ] : REVIEW mode
(( )) : PB PAUSE mode
* : can not be measured


MD-8B BOARD
IC003 CX20145 WAVEFORM SHAPER
THP001
IC004 μPC358C BUFFER
Q003 2SC2021 POWER AMP
Q004 2SD1406 POWER AMP
PS003
PS001
PS002
CN018
GND(R5V)
REG 5V
GND (D9V)
DRIVE 9V
TO PS-52A BOARD CN208
CN002(WHT)
MR Vcc
CFG (A)
MR GND
CFG (B)
CN001(BLK)
DFG
DPG
COM
REG GND
Q108 2SA1175 PROTECT
CN012
DRUM FG (X)
DRUM FG (Y)
DRUM ERROR
DRUM BIAS
DRUM PG(Y)
DRUM PG(X)
DRUM ON
CAP ON
CAP CW/CCW
CAP BIAS
CAP ERROR
CAP FG (Y)
CAP FG (X)
Q006 DTA144ES DISCHRGE
Q001 2SC2021 POWER AMP
Q002 2SD1406 POWER AMP
IC001 CX20136 CAPSTAN MOTOR DRIVE
CURRENT SOURCE
180 120 LOGIC
DRIVER
HE AMP
IB SET
IC002 CX20144 DRUM MOTOR DRIVE
START
CLDET
BRAKE
EMF MIX
CW/CCW
IB LIMITTER
CN003(RED)
DM V
DM U
DM C
DM W
DRUM MOTOR
M902
FG-PG
DFG
DPG
COM
REG GND
CN015(RED)
LM CW
LM CCW
M904 LOADING MOTOR
CN011
HEATER (+)
LAMP CONT
LOAD CW
LOAD CCW
CONT CCW
CONT CW
HOLD
START
DRIVE 5V
TO SS-38 BOARD CN105
CN014(WHT)
DRIVE 5V
START
HOLD
PM901 BRAKE SOLENOID
RS-11A BOARD
PH003 NJL5141E-AB T-REEL
PH002 NJL5141E-AB S-REEL
PH001 NJL5141E-AB T-REEL
CN001
REEL Vcc
SFG
REG GND
TFG 2
TFG 1
CHASSIS GND
CAPSTAN FG
M901
CAPSTAN MOTOR
MR Vcc
CFG (A)
MR GND
CFG (B)
CN008(WHT)
CMU
CMV
CMW
DRIVE GND
VHE (+)
VHE (−)
UHE (+)
UHE (−)
WHE (+)
WHE (−)
HE Vcc
D001 1OE-1
Q104 2SA1175 SWITCH
Q103 2SA1175 SWITCH
Q106 DTC144EF SWITCH
Q105 DTC144EF SWITCH
Q107 DTC144EF SWITCH
CN050(WHT)
REEL Vcc
SFG
REG GND
TFG 2
TFG 1
CHASSIS GND
MS-4 BOARD
M903 CONTROL MOTOR
CM CW
CM CCW
MC
MB
MA
M COM
MODE SWITCH
CN016
CN010
T FG 2
THERM (+)
END
TOP
S FG I
T FGI
C DOWN
MODE
LOAD
REC PROOF
ME/MP
TI0/TI5
TO SS-38 BOARD CN104
TE-2A BOARD
Q003 NJL7141E TAPE END SENSOR
MECH DECK CASSETTE IN SW
S001
CN003
C IN
REG GND
LEFT
PL001
PL002
RIGHT
CN002
LAMP 1 (+)
LAMP 1 (−)
LAMP 2 (+)
LAMP 2 (−)
CN001
C IN
END
REG GND
LAMP (+)
LAMP (−)
CN020(WHT)
CN013(YEL)
R COM
REC PROOF
ME/MP
ERRONEOUS ERASE PREVENTION SW
ME/MP SELECTING SW
S901
REC OG SW R
TE-1A BOARD
Q004 NJL7141E TAPE TOP SENSOR
CN001
REG GND
TOP
CN009(WHT)
Q100 DTC144EF LAMP SW
Q101 2SB740 LAMP DRIVE
IC101 TC4069UBP D-A CONV
CN025(YEL)
REG GND
TPLD
LD-1 BOARD
D001 GL-450
CN017
CHASSIS GND
LA
LB
LC
L COM
LS-9 BOARD
CN904 (BLK)
NC
LOADING SWITCH

no mark : REC/PB mode
< > : FF mode
( ) : REW mode

SERVO SERVO

SS-38 (SERVO/SYSTEM CONTROL), MD-8B (MOTOR DRIVE), RS-11A (REEL SENSOR), TE-1A (TAPE END SENSOR), TE-2A (TAEP END SENSOR), MS-4 (MODE SWITCH), LS-9 (LOADING SWITC

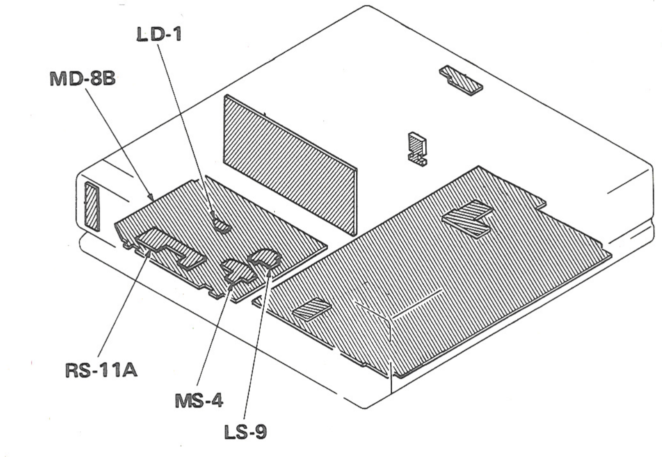
– Ref. No. SS-38 BOARD: 2000 sreies, MD-8B, LS-9 BOARD: 4000 series, RS-11A BOARD: 4500 series, LD-1 BOARD: 4600 series, TE-1A BOARD: 4700 series, TE-2A BOARD: 4800 series, MS-4 BOARD: 5000 series –

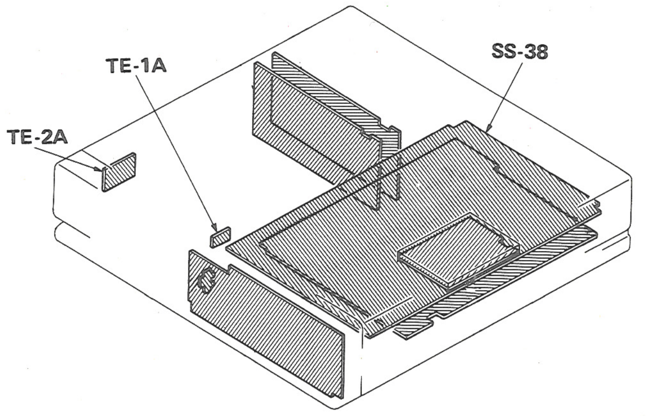
Note (Schematic Diagrams):

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- ☐ : panel designation.
- ☐ : adjustment for repair.
- ▬ : B + bus.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

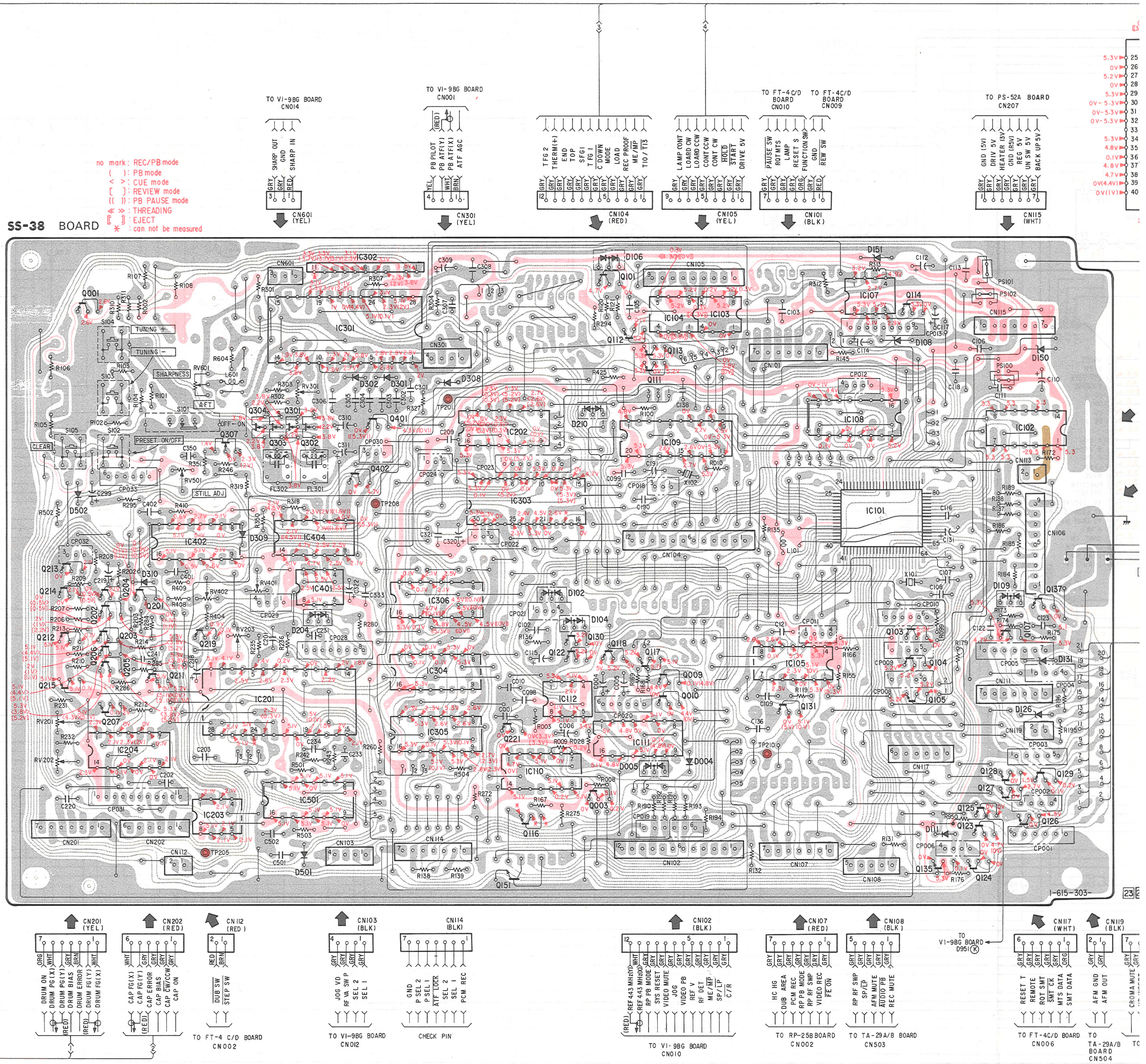

LD-1
MD-8B
RS-11A
MS-4
LS-9


TE-1A
SS-38
TE-2A

IC Q	D	ADJ	TP
	106 151		
IC302 101			
IC107			
IC104 114			
001 IC103			
IC301			
112	108		
113	150		
111			
	302 301		
	308	RV601	
		RV301	
IC108			201
IC202	210		
IC102			
IC109			
304			
303 401			
301			
307 302			
		RV501	
IC303			
402 IC101	502		
			208
IC402 IC404			
	309		
IC401			
213			
	310	RV401	
214 204 IC306		RV402	
201	109		
137	102		
202	104		
103	204		
212 219 107			
203 130 104		RV203	
206			
	131		
122			
215 205 105			
IC304 IC105			
211 118			
IC201 117			
207 IC112 009			
IC305 010	126		
IC111 131			
		RV201	
221			
			210
IC204			
	004		
128	005	RV202	
IC203 129			
IC501 127			
IC110 125			
003 126			
116	111		
123			
			205
	501		
135			
151 124			
IC Q	D	ADJ	TP

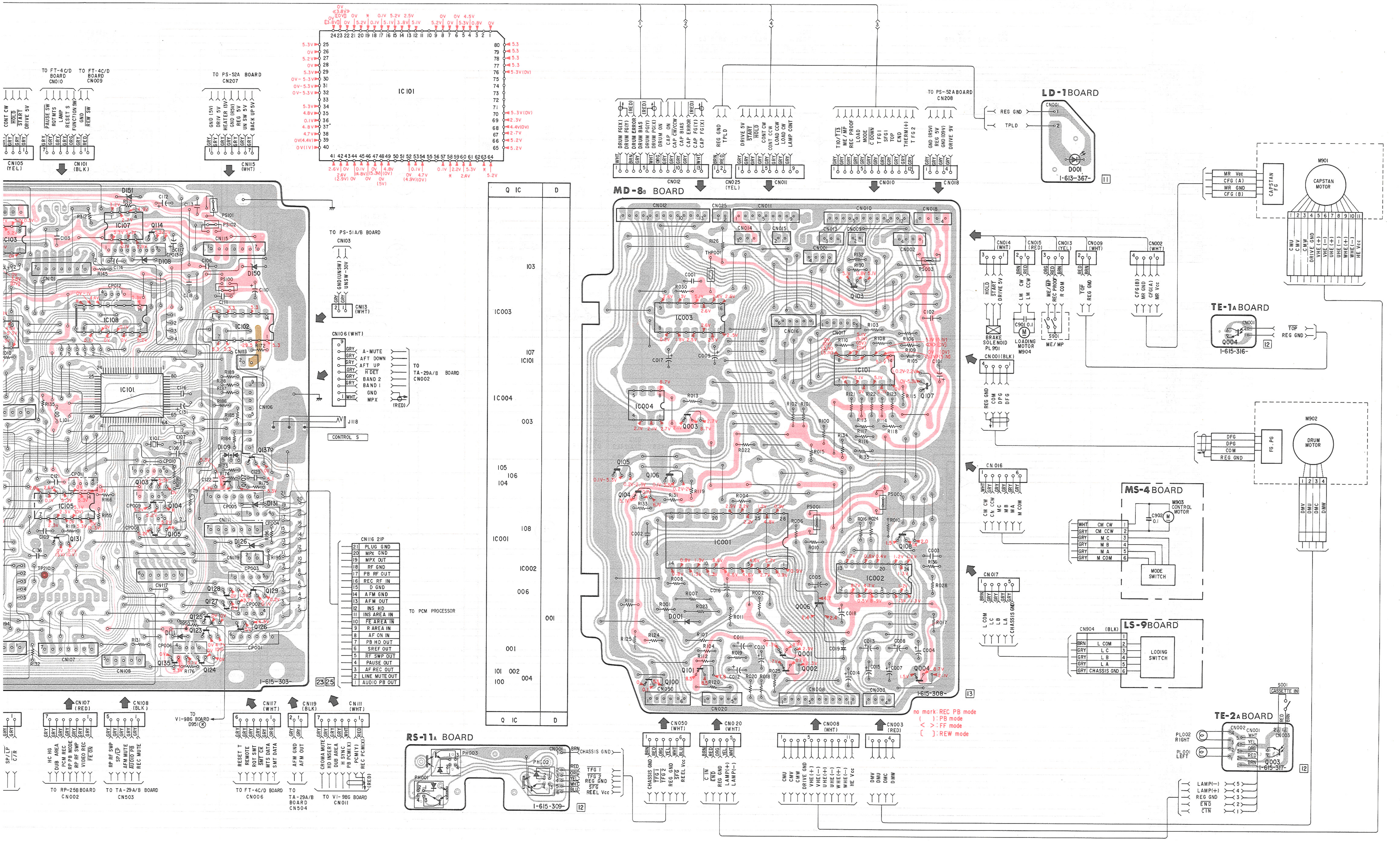
SS-38 BOARD

no mark : REC/PB mode
( ) : PB mode
< > : CUE mode
[ ] : REVIEW mode
(( )) : PB PAUSE mode
≪ ≫ : THREADING
⟦ ⟧ : EJECT
* : can not be measured


1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H I J
TO VI-9BG BOARD CN014
SHARP OUT
GND
SHARP IN
CN601 (YEL)
TO VI-9BG BOARD CN001
PB PILOT
PB ATF(Y)
PB ATF(X)
ATF AGC
CN301 (YEL)
TFG 2
THERM(+)
END
TOP
SFG1
TFG 1
C DOWN
MODE
LOAD
REC PROOF
ME/MP
T10/T13
CN104 (RED)
LAMP CONT
LOARD CW
LOARD CCW
CONT CCW
CONT CW
HOLD
START
DRIVE 5V
CN105 (YEL)
TO FT-4C/D BOARD CN010
TO FT-4C/D BOARD CN009
PAUSE SW
ROT MTS
LAMP
RESET S
FUNCTION SW
GND
REW SW
CN101 (BLK)
TO PS-52A BOARD CN207
GND (5V)
DRIV 5V
HEATER 13V
GND (R5V)
REG 5V
UN SW 5V
BACK UP 5V
CN115 (WHT)
CN201 (YEL)
DRUM ON
DRUM PG(X)
DRUM PG(Y)
DRUM BIAS
DRUM ERROR
DRUM FG(Y)
DRUM FG(X)
CN202 (RED)
CAP FG(X)
CAP FG(Y)
CAP ERROR
CAP BIAS
CAP CW/CCW
CAP ON
CN112 (RED)
DUB SW
STEP SW
TO FT-4 C/D BOARD CN002
CN103 (BLK)
JOG VD
RF VA SW P
SEL 2
SEL 1
TO VI-9BG BOARD CN012
CN114 (BLK)
GND
P SEL 2
P SEL 1
ATF LOCK
SEL 2
SEL 1
PCM REC
CHECK PIN
CN102 (BLK)
REF 4.43 MHz(Y)
REF 4.43 MHz(X)
RP PB MODE
SYS RESET
VIDEO MUTE
JOG
VIDEO PB
REF V
RF DET
ME/MP
SP/LP
C/R
TO VI-9BG BOARD CN010
CN107 (RED)
HC HG
DUB AREA
PCM REC
RP PB MODE
RP RF SWP
VIDEO REC
FE ON
TO RP-25B BOARD CN002
CN108 (BLK)
RP RF SWP
SP/LP
AFM MUTE
AUDIO PB
REC MUTE
TO TA-29A/B BOARD CN503
TO VI-9BG BOARD D951 Ⓚ
CN117 (WHT)
RESET T
REMOTE
ROT SMT
SMT CK
MTS DATA
SMT DATA
TO FT-4C/D BOARD CN006
CN119 (BLK)
AFM GND
AFM OUT
TO TA-29A/B BOARD CN504
CROMA MUTE
1-615-303-

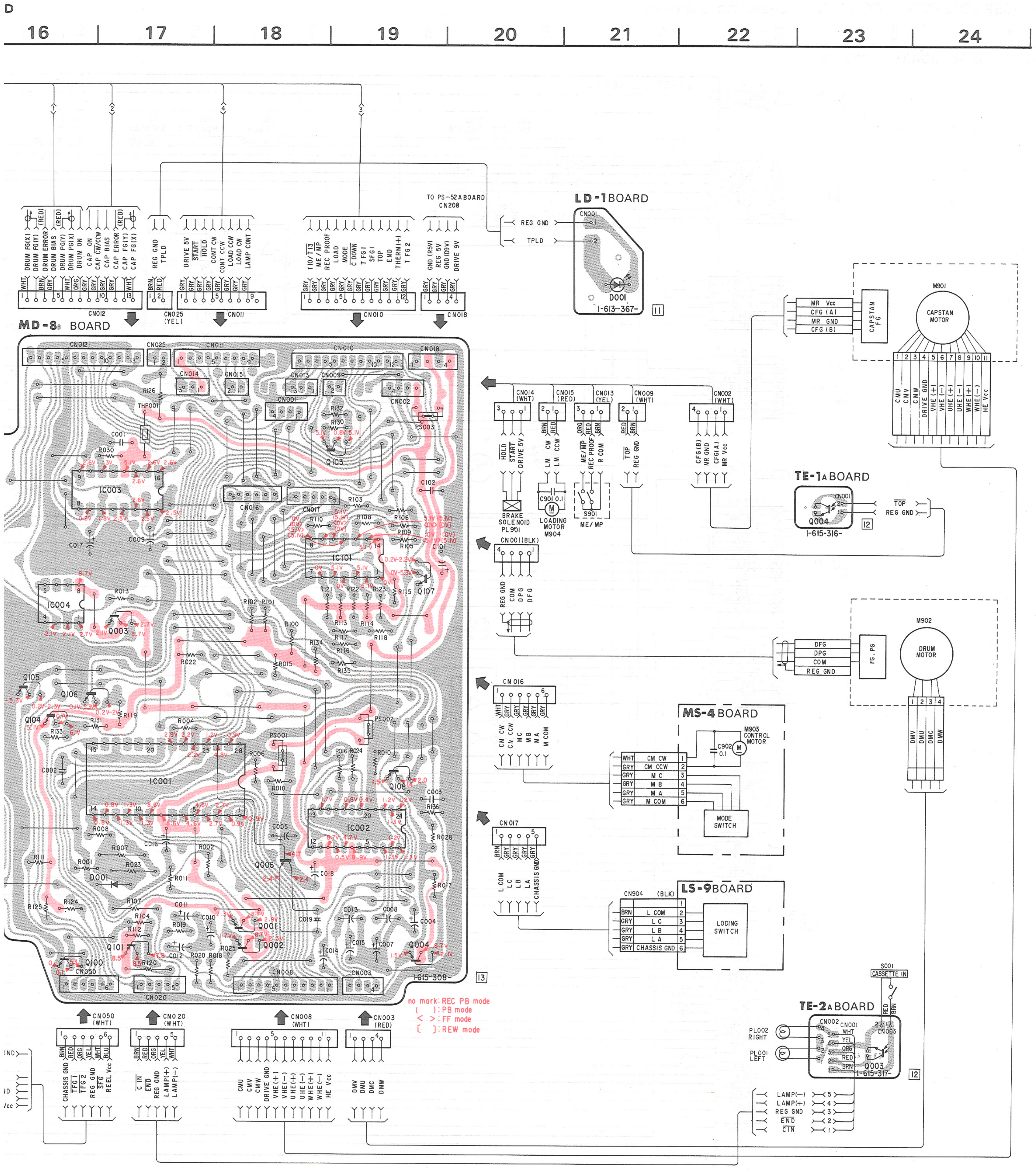
) SENSOR), MS-4 (MODE SWITCH), LS-9 (LOADING SWITCH), LD-1 (TAPE SENSOR) PRINTED WIRING BOARD

E-2A BOARD: 4800 series, MS-4 BOARD: 5000 series –

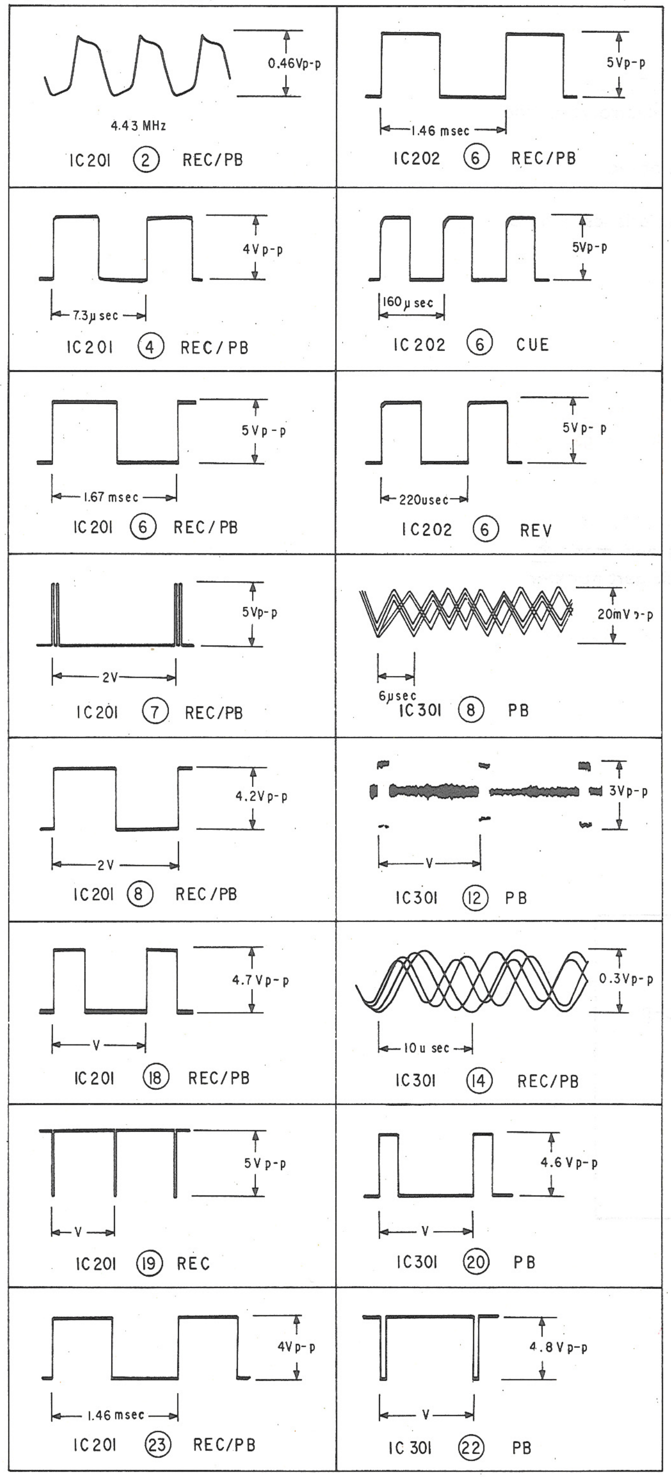

IC101
IC102
IC107
IC108
TO FT-4C/D BOARD CN010
TO FT-4C/D BOARD CN009
TO PS-52A BOARD CN207
TO PS-51A/B BOARD CN103
TO TA-29A/B BOARD CN002
TO PCM PROCESSOR
CN116 2IP
PLUG GND
MPX GND
MPX OUT
RF GND
PB RF OUT
REC RF IN
D GND
AFM GND
AFM OUT
INS HD
INS AREA IN
FE AREA IN
R AREA IN
AF ON IN
PB HD OUT
SREF OUT
RF SWP OUT
PAUSE OUT
AF REC OUT
LINE MUTE OUT
AUDIO PB OUT
1-615-303-
Q IC D
TO PS-52A BOARD CN208
LD-1 BOARD
REG GND
TPLD
D001
1-613-367-
MD-8B BOARD
IC001
IC002
IC003
IC004
1-615-308-
M901 CAPSTAN MOTOR
CAPSTAN FG
TE-1A BOARD
Q004
1-615-316-
TOP
M902 DRUM MOTOR
FG, PG
MS-4 BOARD
M903 CONTROL MOTOR
MODE SWITCH
LS-9 BOARD
LODING SWITCH
S001 CASSETTE IN
TE-2A BOARD
Q003
1-615-317-
PL002 RIGHT
PL001 LEFT
RS-11A BOARD
PH001
PH002
PH003
CHASSIS GND
1-615-309-
TO RP-25B BOARD CN002
TO TA-29A/B BOARD CN503
TO FT-4C/D BOARD CN006
TO TA-29A/B BOARD CN504
TO VI-98G BOARD CN011
TO VI-98G BOARD D951
BRAKE SOLENOID PL901
LOADING MOTOR M904
ME/MP
CONTROL S

no mark: REC PB mode
( ): PB mode
< >: FF mode
[ ]: REW mode

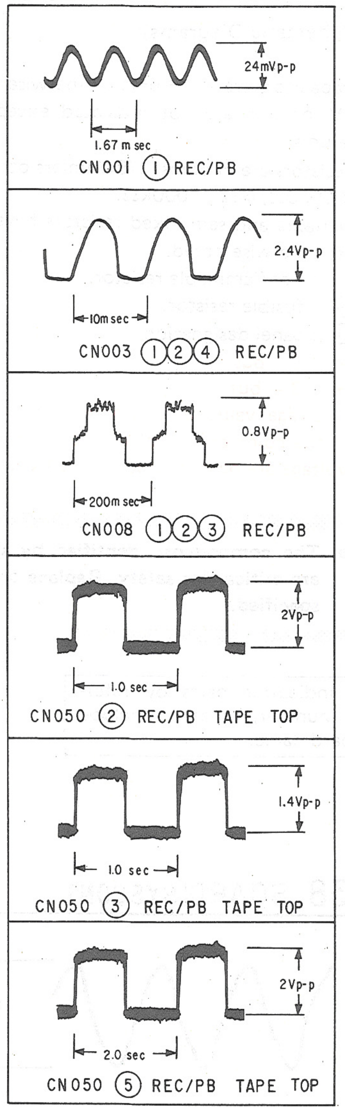
Note


D
16
17
18
19
20
21
22
23
24
MD-8B BOARD
LD-1 BOARD
D001
1-613-367-
TO PS-52A BOARD CN208
REG GND
TPLD
TE-1A BOARD
Q004
1-615-316-
TOP
REG GND
M901
CAPSTAN MOTOR
CAPSTAN FG
MR Vcc
CFG (A)
MR GND
CFG (B)
M902
DRUM MOTOR
FG, PG
DFG
DPG
COM
REG GND
MS-4 BOARD
M903 CONTROL MOTOR
MODE SWITCH
LS-9 BOARD
LODING SWITCH
TE-2A BOARD
S001 CASSETTE IN
PL002 RIGHT
PL001 LEFT
Q003
1-615-317-
BRAKE SOLENOID PL901
LOADING MOTOR M904
S901 ME/MP
IC001
IC002
IC003
IC004
IC101
1-615-308-
no mark: REC PB mode
( ): PB mode
< >: FF mode
[ ]: REW mode

SS-38 BOARD(SERVO) LP mode



MD-8B BOARD LP mode



Note (Printed Wiring Boards):

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- ▨ : B + pattern.
- ▨ : B − pattern.

- Digital transistor (MD-8B: Q006, 100, 105, 106, 107, SS-38C: Q207, 211, 212, 213, 214, 215, 219, 221, 401, 402) transistor with resistors.
Refer to the MD-8B, SS-38C boards schematic diagram for digital transistor.

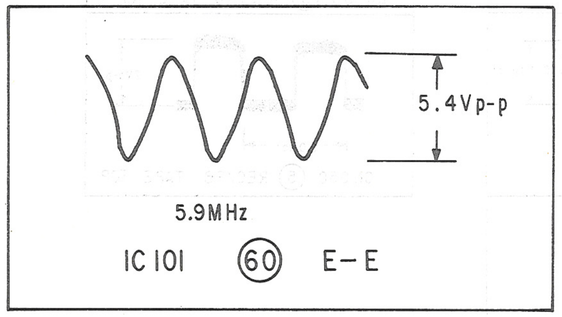
Note (Schematic Diagrams):

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- -⊠- : nonflammable resistor.
- -⊡- : fusible resistor.
- ▭ : panel designation.
- ━━ : B + bus.
- - - - : B – bus.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

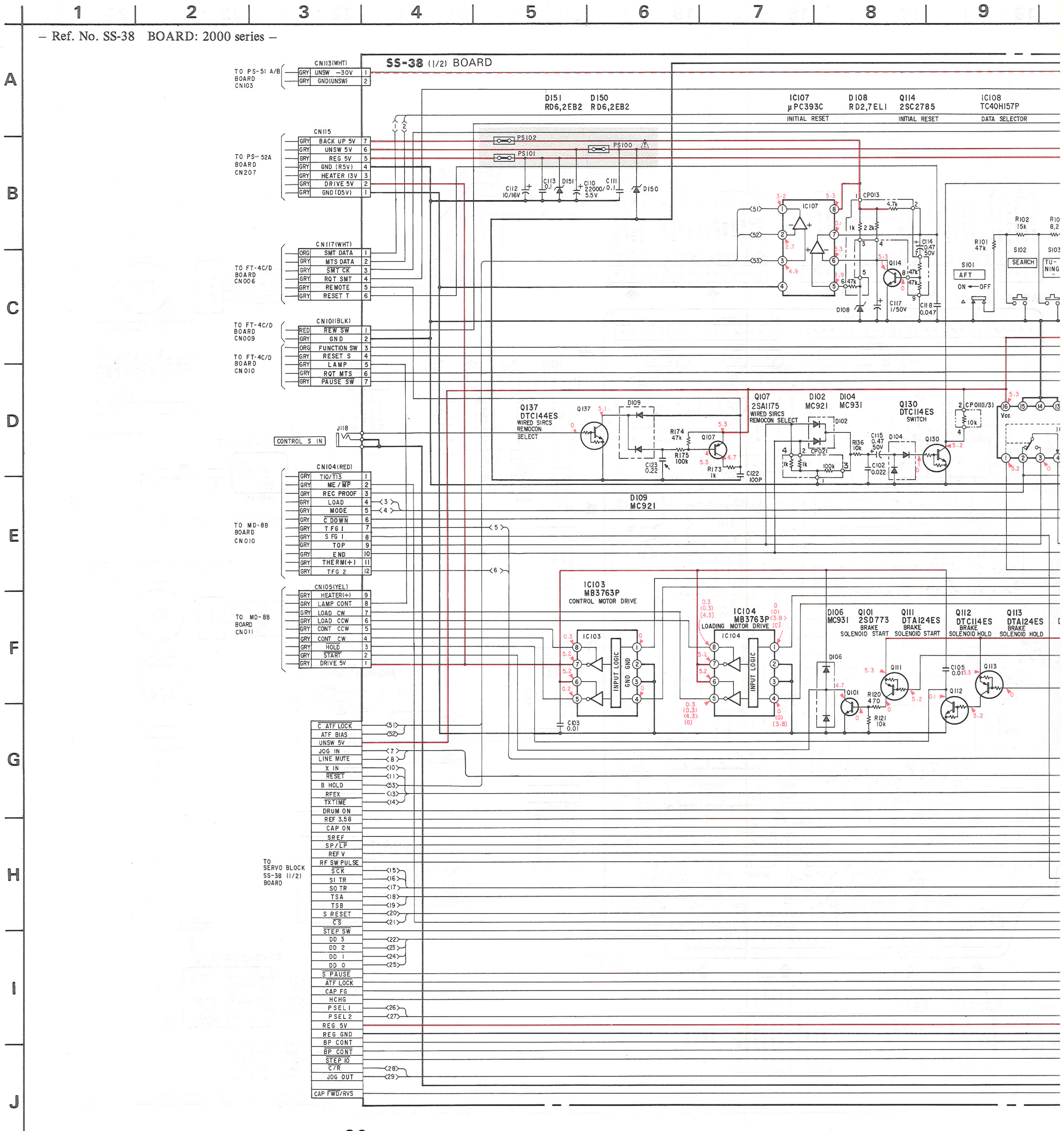
When indicating parts by reference number, please include the board name.

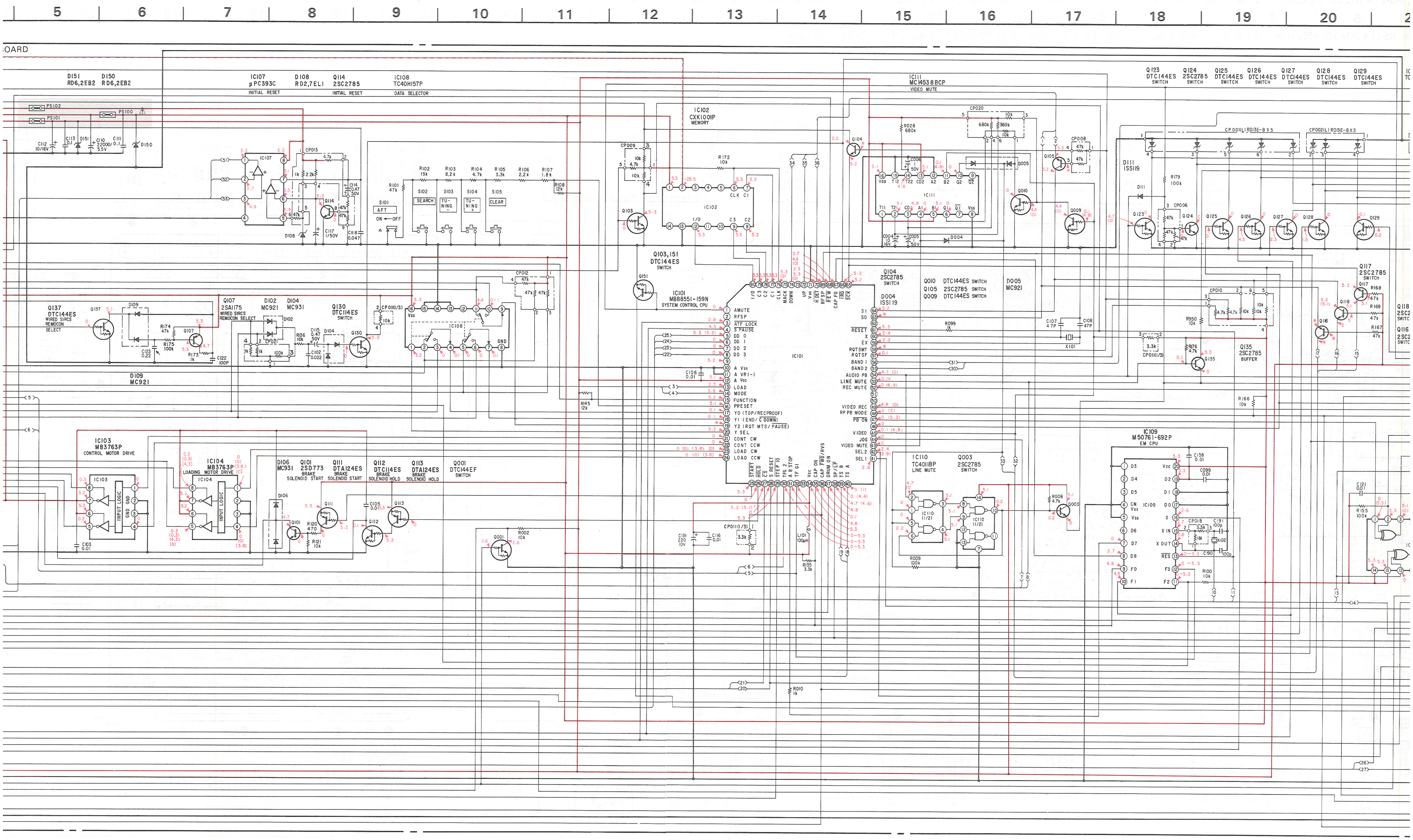
SS-38 BOARD(SYSCON)



SS-38 (SERVO/SYSTEM CONTROL) SCHEMATIC DIAGRAM

– Ref. No. SS-38 BOARD: 2000 series –


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
SS-38 (1/2) BOARD
TO PS-51 A/B BOARD CN103
CN113(WHT)
UNSW –30V
GND(UNSW)
TO PS-52A BOARD CN207
CN115
BACK UP 5V
UNSW 5V
REG 5V
GND (R5V)
HEATER 13V
DRIVE 5V
GND (D5V)
TO FT-4C/D BOARD CN006
CN117(WHT)
SMT DATA
MTS DATA
SMT CK
RQT SMT
REMOTE
RESET T
TO FT-4C/D BOARD CN009
TO FT-4C/D BOARD CN010
CN101(BLK)
REW SW
GND
FUNCTION SW
RESET S
LAMP
RQT MTS
PAUSE SW
CONTROL S IN
J118
TO MD-88 BOARD CN010
CN104(RED)
T10/T13
ME/MP
REC PROOF
LOAD
MODE
C DOWN
T FG 1
S FG 1
TOP
END
THERM(+)
TFG 2
TO MD-88 BOARD CN011
CN105(YEL)
HEATER(+)
LAMP CONT
LOAD CW
LOAD CCW
CONT CCW
CONT CW
HOLD
START
DRIVE 5V
TO SERVO BLOCK SS-38 (1/2) BOARD
C ATF LOCK
ATF BIAS
UNSW 5V
JOG IN
LINE MUTE
X IN
RESET
B HOLD
RFEX
TXTIME
DRUM ON
REF 3.58
CAP ON
SREF
SP/LP
REF V
RF SW PULSE
SCK
SI TR
SO TR
TSA
TSB
S RESET
CS
STEP SW
DD 3
DD 2
DD 1
DD 0
S PAUSE
ATF LOCK
CAP FG
HCHG
PSEL 1
PSEL 2
REG 5V
REG GND
BP CONT
BP CONT
STEP IO
C/R
JOG OUT
CAP FWD/RVS
D151 RD6,2EB2
D150 RD6,2EB2
PS102
PS101
PS100
C112 10/16V
C113
D151
C110 22000/5.5V
C111 0.1
D150
IC107 μPC393C INITIAL RESET
D108 RD2,7EL1
Q114 2SC2785 INITIAL RESET
IC108 TC40H157P DATA SELECTOR
CP013
C114 0.47 50V
C117 1/50V
C118 0.047
R102 15k
R101 47k
S101 AFT ON OFF
S102 SEARCH
S103 TUNING
Q137 DTC144ES WIRED SIRCS REMOCON SELECT
D109
R174 47k
R175 100k
Q107
R173 1k
C122 100P
C123 0.22
D109 MC921
Q107 2SA1175 WIRED SIRCS REMOCON SELECT
D102 MC921
D104 MC931
Q130 DTC114ES SWITCH
CP011(3)
CP021
R136 10k
C115 0.47 50V
C102 0.022
IC103 MB3763P CONTROL MOTOR DRIVE
IC104 MB3763P LOADING MOTOR DRIVE
INPUT LOGIC
C103 0.01
D106 MC931
Q101 2SD773 BRAKE SOLENOID START
Q111 DTA124ES BRAKE SOLENOID START
Q112 DTC114ES BRAKE SOLENOID HOLD
Q113 DTA124ES BRAKE SOLENOID HOLD
R120 470
R121 10k
C105 0.01


5
6
7
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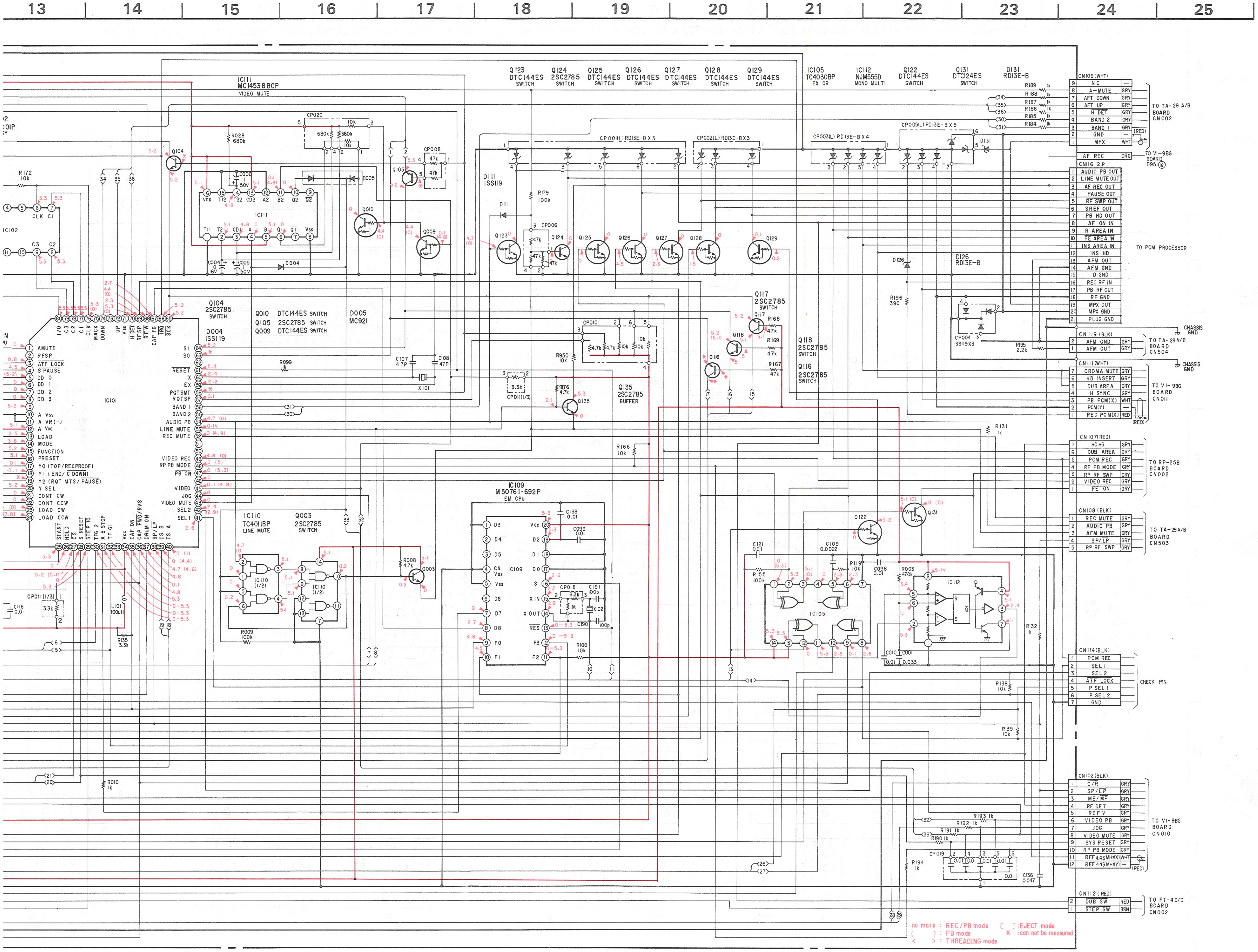
9
10
11
12
13
14
15
16
17
18
19
20
OARD
D151 RD6,2EB2
D150 RD6,2EB2
PS102
PS101
PS100
C112 10/16V
C113 0.1
D151
C110 22000/5.5V
C111 0.1
D150
IC107 μPC393C INITIAL RESET
D108 RD2,7EL1
Q114 2SC2785 INITIAL RESET
IC108 TC40H157P DATA SELECTOR
CP013
C114 0.47 50V
C117 1/50V
C118 0.047
R101 47k
S101 AFT ON OFF
R102 15k
R103 8.2k
R104 4.7k
R105 3.3k
R106 2.2k
R107 1.8k
R108 12k
S102 SEARCH
S103 TU-NING
S104 TU-NING
S105 CLEAR
IC102 CXK1001P MEMORY
CP009
R172 10k
Q103
Q103,151 DTC144ES SWITCH
Q151
IC101 MB88551-159N SYSTEM CONTROL CPU
IC111 MC14538BCP VIDEO MUTE
CP020
R028 680k
C006 50V
C004 16V
C005 50V
D004
D005
Q104
Q010
Q009
Q105
CP008
Q104 2SC2785 SWITCH
D004 1SS119
Q010 DTC144ES SWITCH
Q105 2SC2785 SWITCH
Q009 DTC144ES SWITCH
D005 MC921
D111 1SS119
R179 100k
CP006
Q123 DTC144ES SWITCH
Q124 2SC2785 SWITCH
Q125 DTC144ES SWITCH
Q126 DTC144ES SWITCH
Q127 DTC144ES SWITCH
Q128 DTC144ES SWITCH
Q129 DTC144ES SWITCH
CP001(L)RD13E-BX5
CP002(L)RD13E-BX3
Q117 2SC2785 SWITCH
R168
R169
R167 47k
Q118
Q116
CP010
R950 10k
R176 4.7k
Q135
Q135 2SC2785 BUFFER
CP011(1/3)
R166 10k
Q137 DTC144ES WIRED SIRCS REMOCON SELECT
D109
R174 47k
R175 100k
R173 1k
C123 0.22
C122 100P
Q107 2SA1175 WIRED SIRCS REMOCON SELECT
D102 MC921
D104 MC931
D109 MC921
R136 10k
C115 0.47 50V
C102 0.022
Q130 DTC144ES SWITCH
CP011(1/3)
IC108
R099
C107 47P
C108 47P
X101
C106 0.01
R145 12k
AMUTE
RFSP
ATF LOCK
S PAUSE
DD 0
DD 1
DD 2
DD 3
A Vss
A VR(-)
A Vcc
LOAD
MODE
FUNCTION
PRESET
Y0 (TOP/RECPROOF)
Y1 (END/C DOWN)
Y2 (ROT MTS/PAUSE)
Y SEL
CONT CW
CONT CCW
LOAD CW
LOAD CCW
SI
SO
RESET
X
EX
ROTSMT
ROTSF
BAND 1
BAND 2
AUDIO PB
LINE MUTE
REC MUTE
VIDEO REC
RP PB MODE
PB ON
VIDEO
JOG
VIDEO MUTE
SEL 2
SEL 1
IC103 MB3763P CONTROL MOTOR DRIVE
IC104 MB3763P LOADING MOTOR DRIVE
INPUT LOGIC
GND
C103 0.01
D106 MC931
Q101 2SD773 BRAKE
Q111 DTA124ES SOLENOID START
Q112 DTC144ES BRAKE SOLENOID HOLD
Q113 DTA124ES BRAKE SOLENOID HOLD
Q001 DTC144EF SWITCH
R120 470
R121 10k
C105 0.01
R002 10k
C131 220 10V
C116 0.01
CP011(1/3)
L101 100μH
R135 3.3k
R010 1k
IC110 TC4011BP LINE MUTE
Q003 2SC2785 SWITCH
R009 100k
R008 4.7k
IC109 M50761-692P EM CPU
C138 0.01
C099 0.01
CP018
C191 100p
X102
C190 100p
R100 10k
C121 0.01
R155 100k

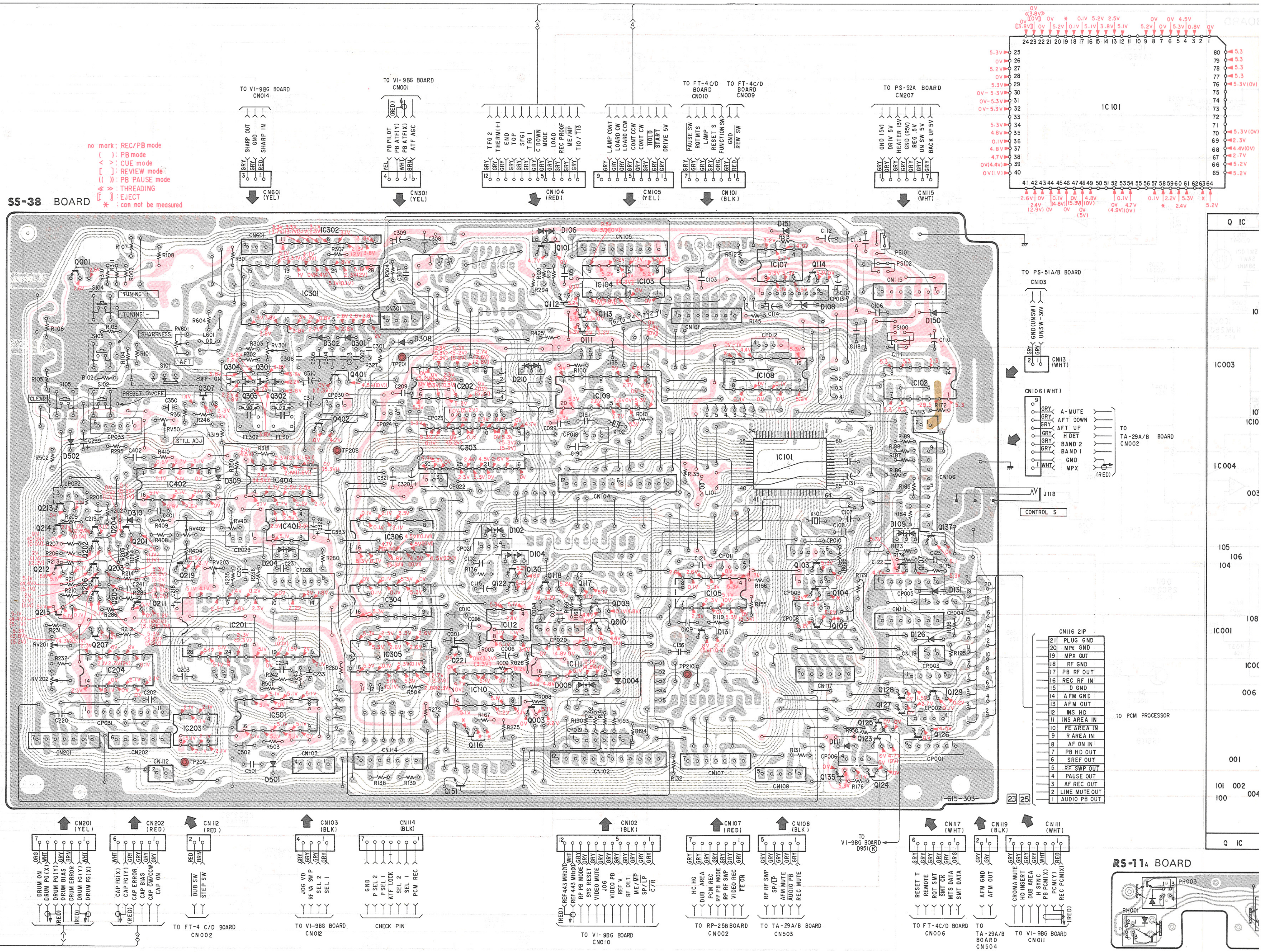

13
14
15
16
17
18
19
20
21
22
23
24
25
IC111 MC14538BCP VIDEO MUTE
IC101
IC102
Q104 2SC2785 SWITCH
D004 ISS119
Q010 DTC144ES SWITCH
Q105 2SC2785 SWITCH
Q009 DTC144ES SWITCH
D005 MC921
D111 ISS119
X101
Q135 2SC2785 BUFFER
Q123 DTC144ES SWITCH
Q124 2SC2785 SWITCH
Q125 DTC144ES SWITCH
Q126 DTC144ES SWITCH
Q127 DTC144ES SWITCH
Q128 DTC144ES SWITCH
Q129 DTC144ES SWITCH
IC105 TC4030BP EX OR
IC112 NJM555D MONO MULTI
Q122 DTC144ES SWITCH
Q131 DTC124ES SWITCH
D131 RD13E-B
CP001(L) RD13E-B X 5
CP002(L) RD13E-B X 3
CP003(L) RD13E-B X 4
CP005(L) RD13E-B X 5
CP004 ISS119X3
D126 RD13E-B
Q117 2SC2785 SWITCH
Q118 2SC2785 SWITCH
Q116 2SC2785 SWITCH
IC110 TC4011BP LINE MUTE
Q003 2SC2785 SWITCH
IC109 M50761-692P EM CPU
CP011(1/3)
CP018
CP019
AMUTE
RFSP
ATF LOCK
S PAUSE
DD 0
DD 1
DD 2
DD 3
A Vss
A VR(-)
A Vcc
LOAD
MODE
FUNCTION
PRESET
Y0 (TOP/RECPROOF)
Y1 (END/C DOWN)
Y2 (RQT MTS/PAUSE)
Y SEL
CONT CW
CONT CCW
LOAD CW
LOAD CCW
SI
SO
RESET
X
EX
RQTSMT
RQTSF
BAND 1
BAND 2
AUDIO PB
LINE MUTE
REC MUTE
VIDEO REC
RP PB MODE
PB ON
VIDEO
JOG
VIDEO MUTE
SEL 2
SEL 1
CN106 (WHT)
9 N C —
8 A-MUTE GRY
7 AFT DOWN GRY
6 AFT UP GRY
5 H DET GRY
4 BAND 2 GRY
3 BAND 1 GRY
2 GND —
1 MPX WHT
(RED)
TO TA-29 A/B BOARD CN002
AF REC ORG
TO VI-9BG BOARD D951 Ⓚ
CN116 21P
1 AUDIO PB OUT
2 LINE MUTE OUT
3 AF REC OUT
4 PAUSE OUT
5 RF SWP OUT
6 SREF OUT
7 PB HD OUT
8 AF ON IN
9 R AREA IN
10 FE AREA IN
11 INS AREA IN
12 INS HD
13 AFM OUT
14 AFM GND
15 D GND
16 REC RF IN
17 PB RF OUT
18 RF GND
19 MPX OUT
20 MPX GND
21 PLUG GND
TO PCM PROCESSOR
CHASSIS GND
CN119 (BLK)
2 AFM GND GRY
1 AFM OUT GRY
TO TA-29A/B BOARD CN504
CHASSIS GND
CN111 (WHT)
7 CROMA MUTE GRY
6 HD INSERT GRY
5 DUB AREA GRY
4 H SYNC GRY
3 PB PCM(X) WHT
2 PCM(Y) —
1 REC PCM(X) RED
(RED)
TO VI-9BG BOARD CN011
CN107 (RED)
7 HC HG GRY
6 DUB AREA GRY
5 PCM REC GRY
4 RP PB MODE GRY
3 RP RF SWP GRY
2 VIDEO REC GRY
1 FE ON GRY
TO RP-25B BOARD CN002
CN108 (BLK)
1 REC MUTE GRY
2 AUDIO PB GRY
3 AFM MUTE GRY
4 SP/LP GRY
5 RP RF SWP GRY
TO TA-29A/B BOARD CN503
CN114 (BLK)
1 PCM REC
2 SEL 1
3 SEL 2
4 ATF LOCK
5 P SEL 1
6 P SEL 2
7 GND
CHECK PIN
CN102 (BLK)
1 C/R GRY
2 SP/LP GRY
3 ME/MP GRY
4 RF DET GRY
5 REF V GRY
6 VIDEO PB GRY
7 JOG GRY
8 VIDEO MUTE GRY
9 SYS RESET GRY
10 RP PB MODE GRY
11 REF 4.43MHz(X) WHT
12 REF 4.43MHz(Y) —
(RED)
TO VI-9BG BOARD CN010
CN112 (RED)
2 DUB SW RED
1 STEP SW BRN
TO FT-4C/D BOARD CN002

no mark : REC/PB mode　〔　〕: EJECT mode
(　) : PB mode　✱ : can not be measured
<　> : THREADING mode

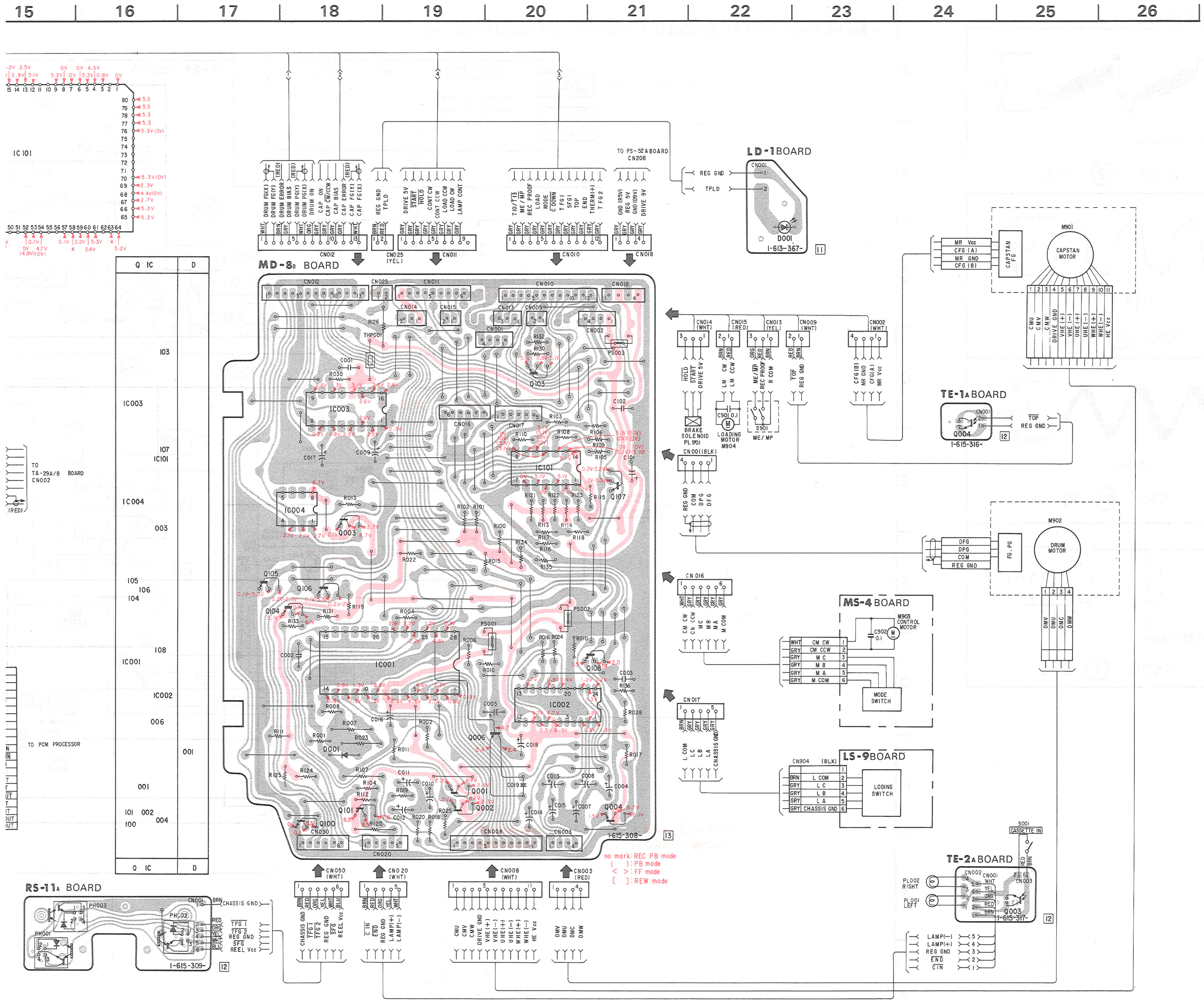
SS-38 (SERVO/SYSTEM CONTROL), MD-8B (MOTOR DRIVE), RS-11A (REEL SENSOR), TE-1A (TAPE END SENSOR), TE-2A (TAEP END SENSOR), MS-4 (MODE SWITCH), LS-9 (LOADING SWITCH), LD-1 (TAPE SENSOR) PRINTED WIRING BOARD

– Ref. No. SS-38 BOARD: 2000 sreies, MD-8B, LS-9 BOARD: 4000 series, RS-11A BOARD: 4500 series, LD-1 BOARD: 4600 series, TE-1A BOARD: 4700 series, TE-2A BOARD: 4800 series, MS-4 BOARD: 5000 series –

IC	Q	D	ADJ	TP
		106 151		
IC302	101			
IC107				
IC104 IC103	114 001			
IC301				
	112			
		108		
	113	150		
	111			
		302 301 308	RV601	
			RV301	
IC108				201
IC202		210		
IC102				
IC109				
	304			
	303 401			
	301			
	307 302			
			RV501	
IC303 IC101	402	502		
				208
IC402 IC404				
		309		
IC401				
	213			
IC306	214 204	310	RV401 RV402	
	201	109		
	137	102		
	202	104		
	103	204		
	212 219 107			
	203 130 104		RV203	
	206			
		131		
	215 205 122 105			
IC304 IC105				
	211 118			
IC201	117			
IC112	207 009			
IC305	010	126		
IC 111	131			
			RV201	
	221			
				210
IC204				
		004		
	128	005	RV202	
IC203	129			
IC501	127			
IC110	125			
	003 126			
	116	111		
	123			
				205
		501		
	135			
	151 124			
IC	Q	D	ADJ	TP

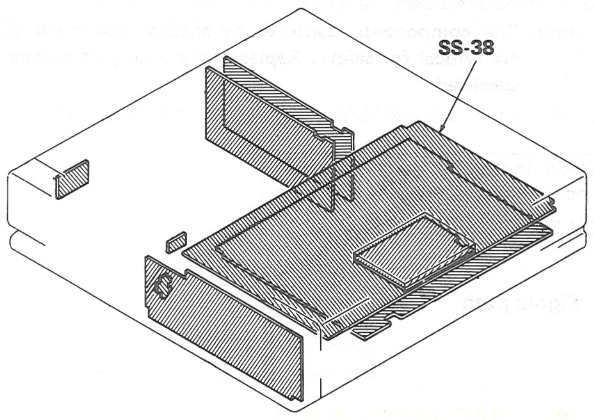

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
SS-38 BOARD
no mark : REC/PB mode
( ) : PB mode
< > : CUE mode
[ ] : REVIEW mode
(( )) : PB PAUSE mode
≪ ≫ : THREADING
⟦ ⟧ : EJECT
✱ : can not be measured
TO VI-9BG BOARD CN014
SHARP OUT GND SHARP IN
CN601 (YEL)
TO VI-9BG BOARD CN001
PB PILOT PB ATF(Y) PB ATF(X) ATF AGC
CN301 (YEL)
TFG 2 THERM(+) END TOP SFG1 T FG 1 C DOWN MODE LOAD REC PROOF ME/MP T10/T13
CN104 (RED)
LAMP CONT LOARD CW LOARD CCW CONT CCW CONT CW HOLD START DRIVE 5V
CN105 (YEL)
TO FT-4C/D BOARD CN010
TO FT-4C/D BOARD CN009
PAUSE SW RQT MTS LAMP RESET S FUNCTION SW GND REW SW
CN101 (BLK)
TO PS-52A BOARD CN207
GND (5V) DRIV 5V HEATER 13V GND (R5V) REG 5V UN SW 5V BACK UP 5V
CN115 (WHT)
IC101
TO PS-51A/B BOARD CN103
GND(UNSW) UNSW-30V
CN113 (WHT)
CN106 (WHT)
A-MUTE AFT DOWN AFT UP H DET BAND 2 BAND 1 GND MPX
TO TA-29A/B BOARD CN002
J118
CONTROL S
CN116 21P
21 PLUG GND
20 MPX GND
19 MPX OUT
18 RF GND
17 PB RF OUT
16 REC RF IN
15 D GND
14 AFM GND
13 AFM OUT
12 INS HD
11 INS AREA IN
10 FE AREA IN
9 R AREA IN
8 AF ON IN
7 PB HD OUT
6 SREF OUT
5 RF SWP OUT
4 PAUSE OUT
3 AF REC OUT
2 LINE MUTE OUT
1 AUDIO PB OUT
TO PCM PROCESSOR
23 25
1-615-303-
CN201 (YEL)
DRUM ON DRUM PG(X) DRUM PG(Y) DRUM BIAS DRUM ERROR DRUM FG(Y) DRUM FG(X)
CN202 (RED)
CAP FG(X) CAP FG(Y) CAP ERROR CAP BIAS CAP CW/CCW CAP ON
CN112 (RED)
DUB SW STEP SW
TO FT-4 C/D BOARD CN002
CN103 (BLK)
JOG VD RF VA SW P SEL 2 SEL 1
TO VI-9BG BOARD CN012
CN114 (BLK)
GND P SEL 2 P SEL 1 ATF LOCK SEL 2 SEL 1 PCM REC
CHECK PIN
CN102 (BLK)
REF 4.43 MHz(Y) REF 4.43 MHz(X) RP PB MODE SYS RESET VIDEO MUTE JOG VIDEO PB REF V RF DET ME/MP SP/LP C/R
TO VI-9BG BOARD CN010
CN107 (RED)
HC HG DUB AREA PCM REC RP PB MODE RP RF SWP VIDEO REC FE ON
TO RP-25B BOARD CN002
CN108 (BLK)
RP RF SWP SP/LP AFM MUTE AUDIO PB REC MUTE
TO TA-29A/B BOARD CN503
TO VI-9BG BOARD D951 Ⓚ
CN117 (WHT)
RESET T REMOTE RQT SMT SMT CK MTS DATA SMT DATA
TO FT-4C/D BOARD CN006
CN119 (BLK)
AFM GND AFM OUT
TO TA-29A/B BOARD CN504
CN111 (WHT)
CROMA MUTE HD INSERT DUB AREA H SYNC PB PCM(X) PCM(Y) REC PCM(X)
TO VI-9BG BOARD CN011
RS-11A BOARD
PH001 PH003
Q IC

WIRING BOARD


15
16
17
18
19
20
21
22
23
24
25
26
IC101
TO TA-29A/8 BOARD CN002
TO PCM PROCESSOR
Q IC D
MD-8B BOARD
1-615-308-
CN012
CN025 (YEL)
CN011
CN010
CN018
TO PS-52A BOARD CN208
LD-1 BOARD
D001
1-613-367-
REG GND
TPLD
CN014 (WHT)
CN015 (RED)
CN013 (YEL)
CN009 (WHT)
CN002 (WHT)
BRAKE SOLENOID PL901
LOADING MOTOR M904
S901 ME/MP
CN001 (BLK)
TE-1A BOARD
Q004
1-615-316-
TOP
REG GND
M901 CAPSTAN MOTOR
CAPSTAN FG
MR Vcc
CFG (A)
MR GND
CFG (B)
M902 DRUM MOTOR
FG, PG
DFG
DPG
COM
REG GND
CN016
CN017
MS-4 BOARD
M903 CONTROL MOTOR
MODE SWITCH
LS-9 BOARD
CN904 (BLK)
LODING SWITCH
TE-2A BOARD
S001 CASSETTE IN
PL002 RIGHT
PL001 LEFT
Q003
1-615-317-
LAMP(−)
LAMP(+)
REG GND
END
CTN
RS-11A BOARD
PH003
PH002
PH001
1-615-309-
CHASSIS GND
TFG 1
TFG 2
REG GND
SFG
REEL Vcc
CN050 (WHT)
CN020 (WHT)
CN008 (WHT)
CN003 (RED)
IC001
IC002
IC003
IC004
no mark: REC PB mode
( ): PB mode
< >: FF mode
[ ]: REW mode

Note (Printed Wiring Boards):

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- 🟥 : B + pattern.
- 🟧 : B − pattern.
- Digital transistor (SS-38C: Q001, 009, 010, 103, 111, 112, 113, 122, 123, 125, 126, 127, 128, 129, 130, 131, 137, 151) transistor with resistors.
  Refer to the SS-38C board schematic diagram for digital transistor.



Note (Schematic Diagrams):

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ.
- All variable and semi-fixed resistors have characteristics curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- ▭ : adjustment for repair.
- — : B + bus.
- - - - : B – bus.
- The voltage value is a reference value between the grounding when the color bar signal is received from a color bar generator.
- All voltage are dc measured with a VOM (10MΩ)

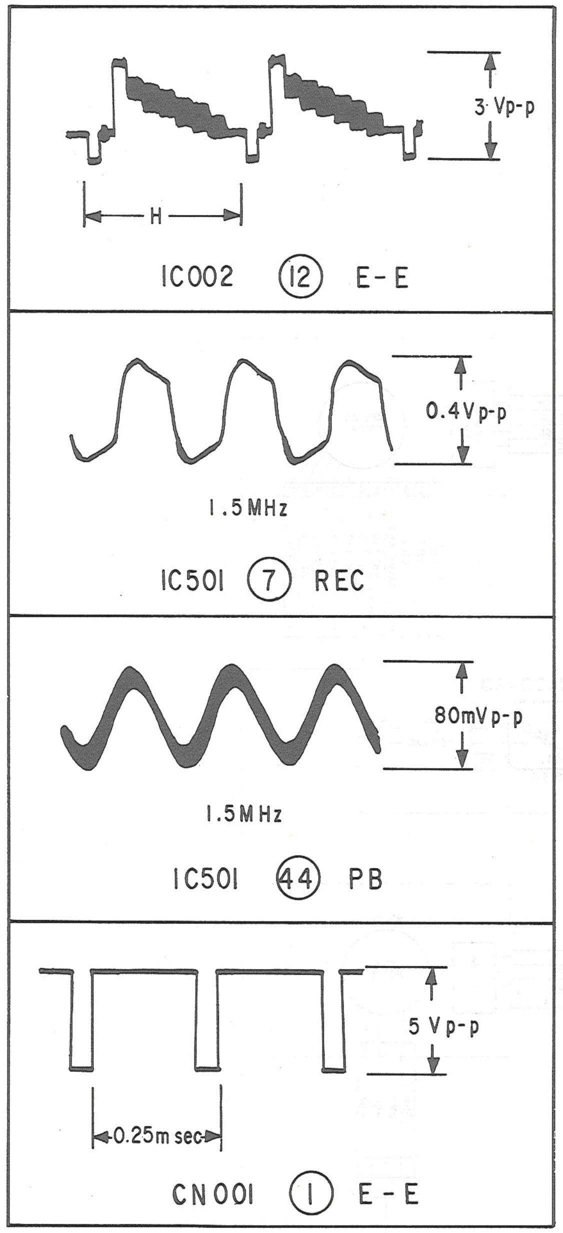
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- **Signal path**

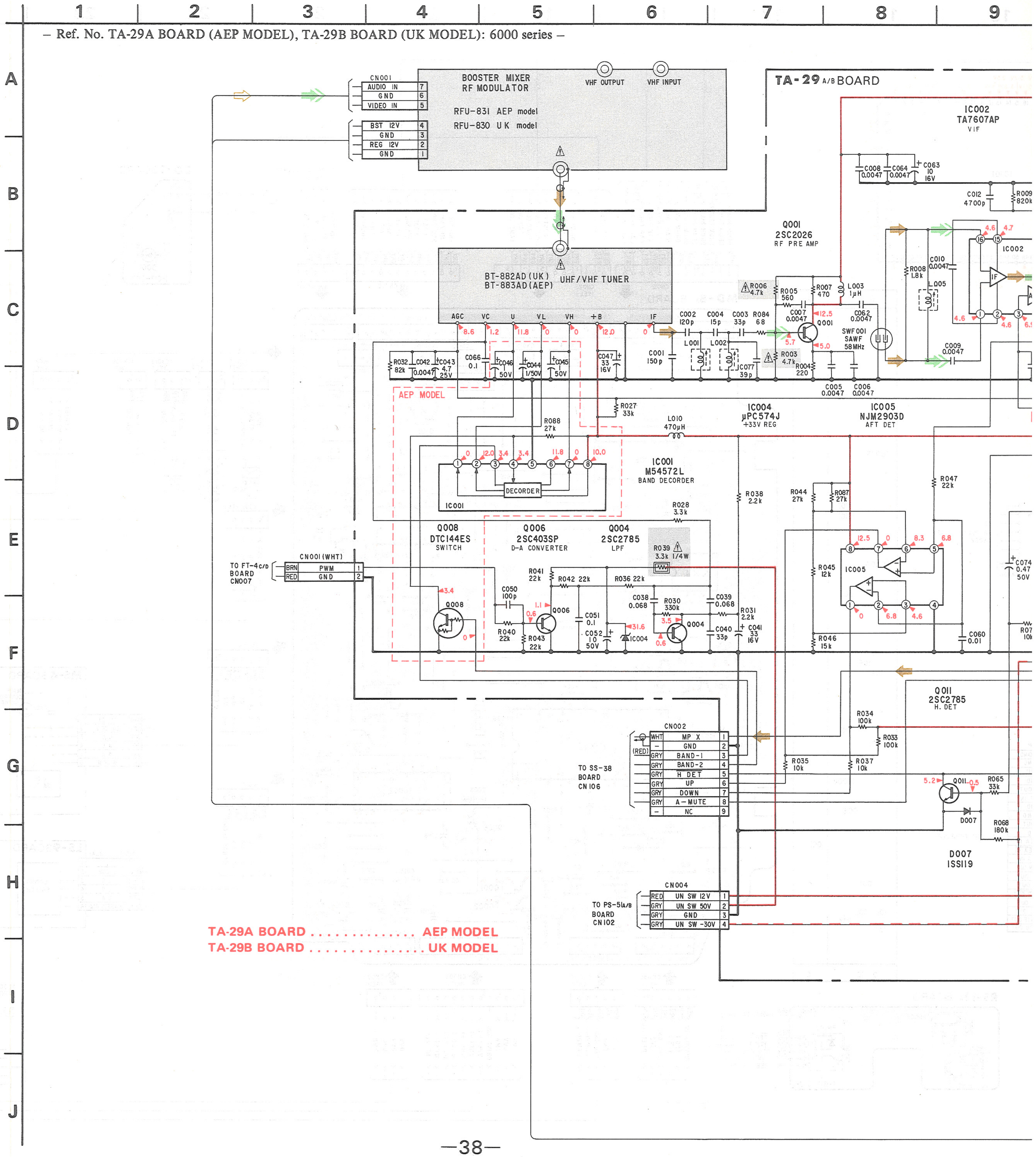
➡ :REC Y & CHROMA SIGNAL
⇨ :PB Y & CHROMA SIGNAL
➡ :REC AUDIO SIGNAL
⇨ :PB AUDIO SIGNAL

TA-29A/B BOARD

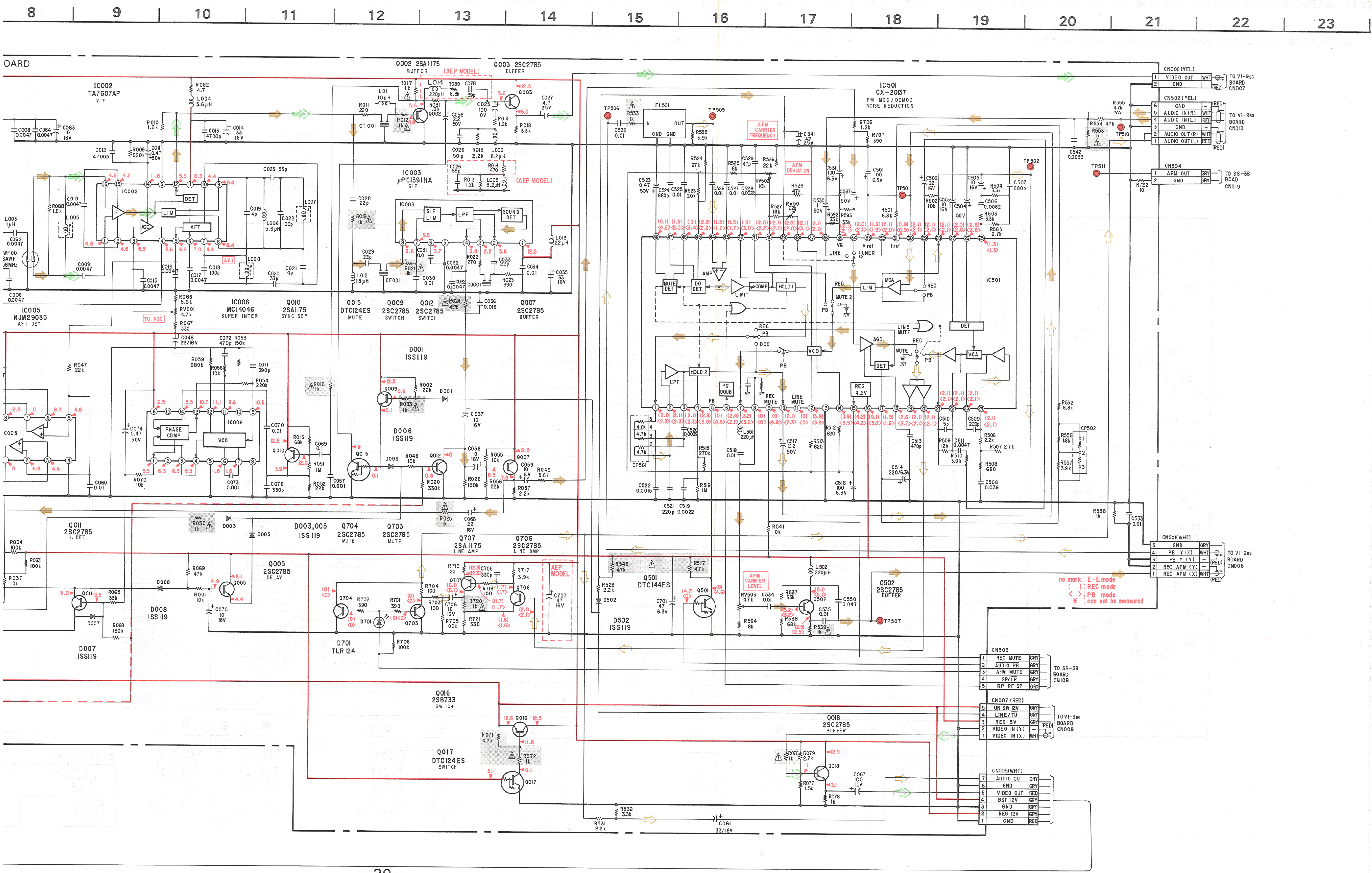


TA-29A/B (TUNER/VIF/AFM) SCHEMATIC DIAGRAM

– Ref. No. TA-29A BOARD (AEP MODEL), TA-29B BOARD (UK MODEL): 6000 series –


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
CN001
AUDIO IN
GND
VIDEO IN
BST 12V
GND
REG 12V
GND
BOOSTER MIXER
RF MODULATOR
RFU-831 AEP model
RFU-830 UK model
VHF OUTPUT
VHF INPUT
BT-882AD (UK)
BT-883AD (AEP)
UHF/VHF TUNER
AGC
VC
U
VL
VH
+B
IF
TA-29 A/B BOARD
IC002
TA7607AP
VIF
Q001
2SC2026
RF PRE AMP
SWF001
SAWF
58MHz
AEP MODEL
IC001
M54572L
BAND DECODER
DECORDER
IC004
μPC574J
+33V REG
IC005
NJM2903D
AFT DET
Q008
DTC144ES
SWITCH
Q006
2SC403SP
D-A CONVERTER
Q004
2SC2785
LPF
TO FT-4c/o BOARD CN007
CN001 (WHT)
BRN PWM
RED GND
CN002
MP X
GND
BAND-1
BAND-2
H DET
UP
DOWN
A-MUTE
NC
TO SS-38 BOARD CN106
CN004
UN SW 12V
UN SW 50V
GND
UN SW -30V
TO PS-51a/b BOARD CN102
Q011
2SC2785
H. DET
D007
1SS119

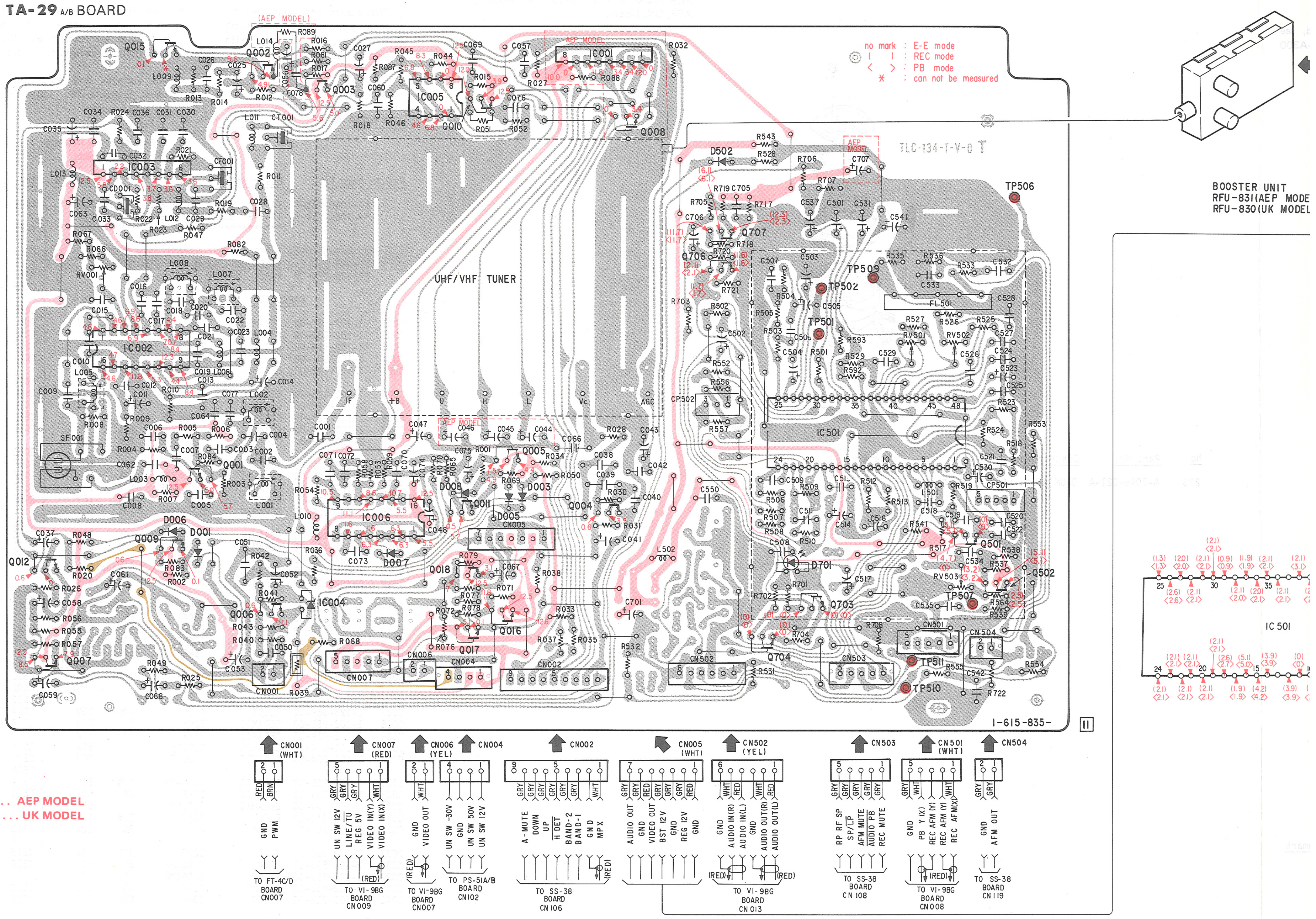
TA-29A BOARD .... AEP MODEL
TA-29B BOARD .... UK MODEL


8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
OARD
IC002
TA7607AP
VIF
Q002 2SA1175
BUFFER
(AEP MODEL)
Q003 2SC2785
BUFFER
IC003
μPC1391HA
SIF
(AEP MODEL)
IC501
CX-20137
FM MOD / DEMOD
NOISE REDUCTION
FL501
TP506
TP509
AFM CARRIER FREQUENCY
AFM DEVIATION
TP502
TP501
TP510
TP511
CN006 (YEL)
VIDEO OUT
GND
TO VI-9e6 BOARD CN007
CN502 (YEL)
GND
AUDIO IN (R)
AUDIO IN (L)
GND
AUDIO OUT (R)
AUDIO OUT (L)
TO VI-9e6 BOARD CN013
CN504
AFM OUT
GND
TO SS-38 BOARD CN119
WF001 SAWF 58MHz
IC005
NJM2903D
AFT DET
IC006
MC14046
SUPER INTER
Q010
2SA1175
SYNC SEP
Q015
DTC124ES
MUTE
Q009
2SC2785
SWITCH
Q012
2SC2785
SWITCH
Q007
2SC2785
BUFFER
TU AGC
D001
ISS119
D006
ISS119
PHASE COMP
VCO
DET
LIM
AFT
SIF LIM
LPF
SOUND DET
MUTE DET
DO DET
AMP
LIMIT
COMP
HOLD 1
HOLD 2
LIM
MOA
REC
PB
MUTE 2
LINE MUTE
DET
AGC
MUTE
VCA
VCO
DOC
LPF
PG DOUB
REC MUTE
LINE MUTE
REG 4.2V
CP501
CP502
Q011
2SC2785
H. DET
D003
D005
D003,005
ISS119
Q704
2SC2785
MUTE
Q703
2SC2785
MUTE
Q707
2SA1175
LINE AMP
Q706
2SC2785
LINE AMP
AEP MODEL
Q005
2SC2785
DELAY
D008
ISS119
D007
ISS119
D701
TLR124
Q501
DTC144ES
D502
ISS119
AFM CARRIER LEVEL
Q502
2SC2785
BUFFER
TP507
CN501 (WHT)
GND
PB Y (X)
PB Y (Y)
REC AFM (Y)
REC AFM (X)
TO VI-9e6 BOARD CN008
no mark : E-E mode
( ) : REC mode
< > : PB mode
* : can not be measured
CN503
REC MUTE
AUDIO PB
AFM MUTE
SP/LP
RP RF SP
TO SS-38 BOARD CN108
CN007 (RED)
UN SW 12V
LINE/TU
REG 5V
VIDEO IN (Y)
VIDEO IN (X)
TO VI-9e6 BOARD CN009
Q016
2SB733
SWITCH
Q017
DTC124ES
SWITCH
Q018
2SC2785
BUFFER
CN005 (WHT)
AUDIO OUT
GND
VIDEO OUT
BST 12V
GND
REG 12V
GND
C061 33/16V

TA-29A/B (TUNER/VIF/AFM) PRINTED WIRING BOARD

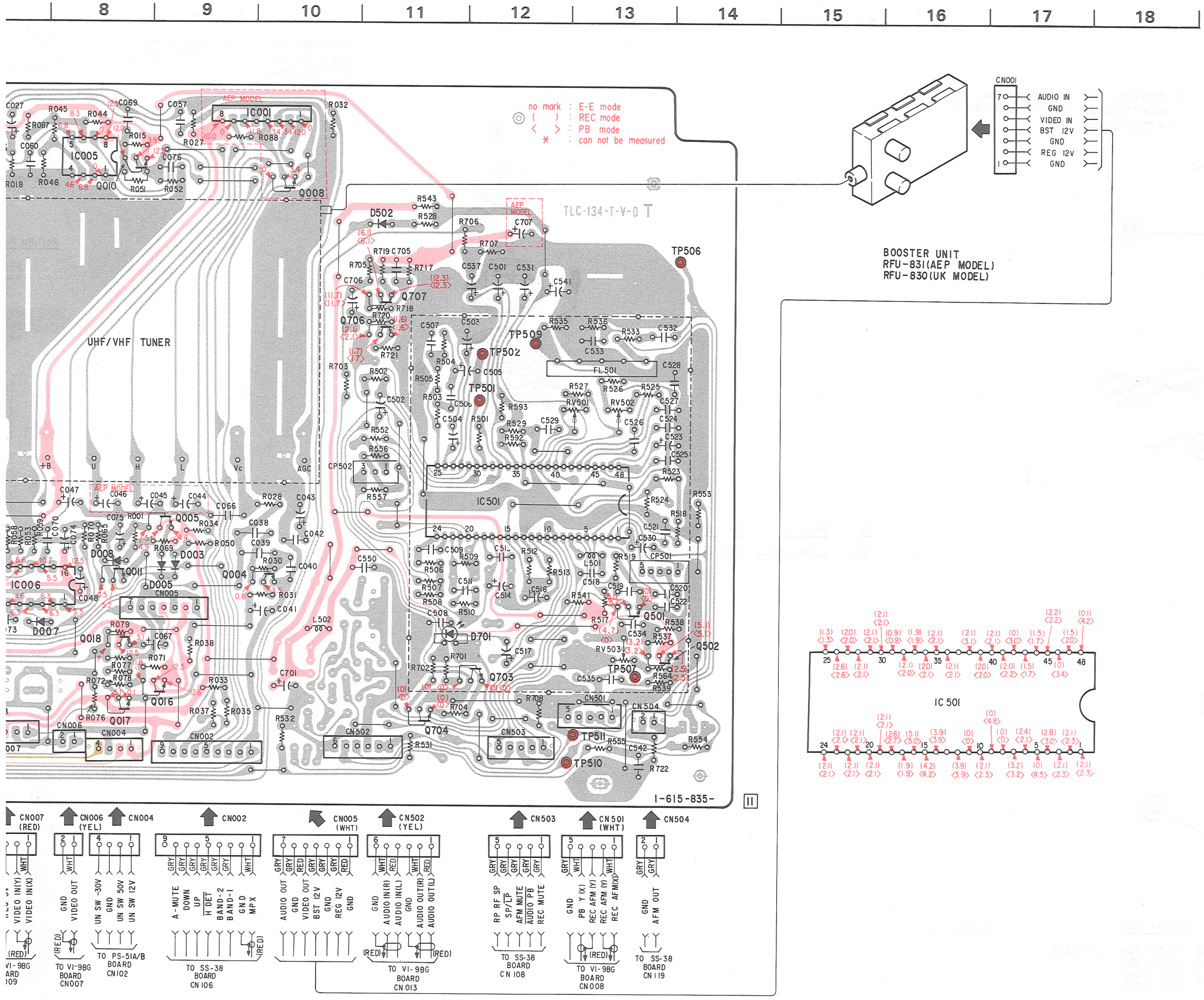
– Ref. No. TA-29A BOARD (AEP MODEL), TA-29B BOARD (UK MODEL): 6000 series –

Q, IC	D	ADJ	TP
015 IC001 002			
003 IC005 010 008			
	502		
IC003			
			506
707			
706		001	509 502
			501
IC002		501 502	
IC501			
005			
001	008		
011 004 IC006	005 003		
501 009	006 001 007		
012 018 502	701		
		503	
IC004 006 703 016 704 017 007			507
			511 510
Q, IC	D	ADJ	TP


TA-29 A/B BOARD
(AEP MODEL)
AEP MODEL
UHF/VHF TUNER
IF
+B
U
H
L
Vc
AGC
IC001
IC002
IC003
IC004
IC005
IC006
IC501
Q001
Q002
Q003
Q004
Q005
Q006
Q007
Q008
Q009
Q010
Q011
Q012
Q015
Q016
Q017
Q018
Q501
Q502
Q703
Q704
Q706
Q707
D001
D003
D005
D006
D007
D008
D502
D701
TP501
TP502
TP506
TP507
TP509
TP510
TP511
RV001
RV501
RV502
RV503
SF001
FL501
CF001
CP501
CP502
TLC-134-T-V-0 T
1-615-835-
II
BOOSTER UNIT
RFU-831(AEP MODE
RFU-830(UK MODEL
IC 501
CN001 (WHT)
2 1
RED BRN
GND
PWM
TO FT-4C/D BOARD CN007
CN007 (RED)
5 1
GRY GRY GRY WHT
UN SW 12V
LINE/TU
REG 5V
VIDEO IN(Y)
VIDEO IN(X)
(RED)
TO VI-9BG BOARD CN009
CN006 (YEL)
2 1
WHT
GND
VIDEO OUT
(RED)
TO VI-9BG BOARD CN007
CN004
4 1
UN SW -30V
GND
UN SW 50V
UN SW 12V
TO PS-51A/B BOARD CN102
CN002
9 5 1
GRY GRY GRY GRY GRY GRY WHT
A-MUTE
DOWN
UP
H DET
BAND-2
BAND-1
GND
MPX
(RED)
TO SS-38 BOARD CN106
CN005 (WHT)
7 1
GRY GRY RED GRY GRY GRY RED
AUDIO OUT
GND
VIDEO OUT
BST 12V
GND
REG 12V
GND
CN502 (YEL)
6 1
WHT RED WHT RED
GND
AUDIO IN(R)
AUDIO IN(L)
GND
AUDIO OUT(R)
AUDIO OUT(L)
(RED)
(RED)
TO VI-9BG BOARD CN013
CN503
5 1
GRY GRY GRY GRY GRY
RP RF SP
SP/LP
AFM MUTE
AUDIO PB
REC MUTE
TO SS-38 BOARD CN108
CN501 (WHT)
5 1
GRY WHT WHT
GND
PB Y (X)
REC AFM (Y)
REC AFM (Y)
REC AFM(X)
(RED)
TO VI-9BG BOARD CN008
CN504
2 1
GRY GRY
GND
AFM OUT
TO SS-38 BOARD CN119

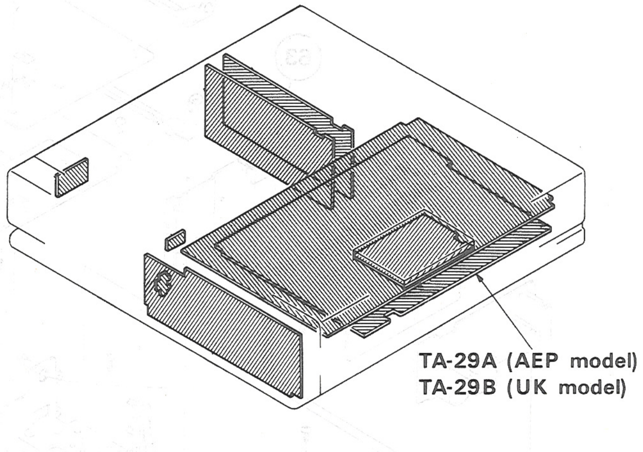
no mark : E-E mode
( ) : REC mode
< > : PB mode
* : can not be measured

TA-29A BOARD .... AEP MODEL
TA-29B BOARD .... UK MODEL


8
9
10
11
12
13
14
15
16
17
18
no mark : E-E mode
( ) : REC mode
< > : PB mode
* : can not be measured
AEP MODEL
IC001
IC005
IC006
UHF/VHF TUNER
TLC-134-T-V-0 T
D502
Q707
Q706
TP506
TP509
TP502
TP501
FL501
IC501
CP502
CP501
Q501
Q502
D701
Q703
Q704
TP507
TP510
TP511
Q005
Q004
D003
D005
D008
D007
Q011
Q018
Q016
Q017
Q008
Q010
L502
L501
1-615-835-
11
BOOSTER UNIT
RFU-831(AEP MODEL)
RFU-830(UK MODEL)
CN001
AUDIO IN
GND
VIDEO IN
BST 12V
GND
REG 12V
GND
CN007 (RED)
CN006 (YEL)
CN004
CN002
CN005 (WHT)
CN502 (YEL)
CN503
CN501 (WHT)
CN504
VIDEO IN(Y)
VIDEO IN(X)
GND
VIDEO OUT
UN SW -30V
GND
UN SW 50V
UN SW 12V
A-MUTE
DOWN
UP
H DET
BAND-2
BAND-1
GND
MPX
AUDIO OUT
GND
VIDEO OUT
BST 12V
GND
REG 12V
GND
GND
AUDIO IN(R)
AUDIO IN(L)
GND
AUDIO OUT(R)
AUDIO OUT(L)
RP RF SP
SP/LP
AFM MUTE
AUDIO PB
REC MUTE
GND
PB Y(X)
REC AFM (Y)
REC AFM (Y)
REC AFMIX
GND
AFM OUT
TO VI-9BG BOARD CN007
TO PS-51A/B BOARD CN102
TO SS-38 BOARD CN106
TO VI-9BG BOARD CN013
TO SS-38 BOARD CN108
TO VI-9BG BOARD CN008
TO SS-38 BOARD CN119
IC 501

Note (Printed Wiring Boards):

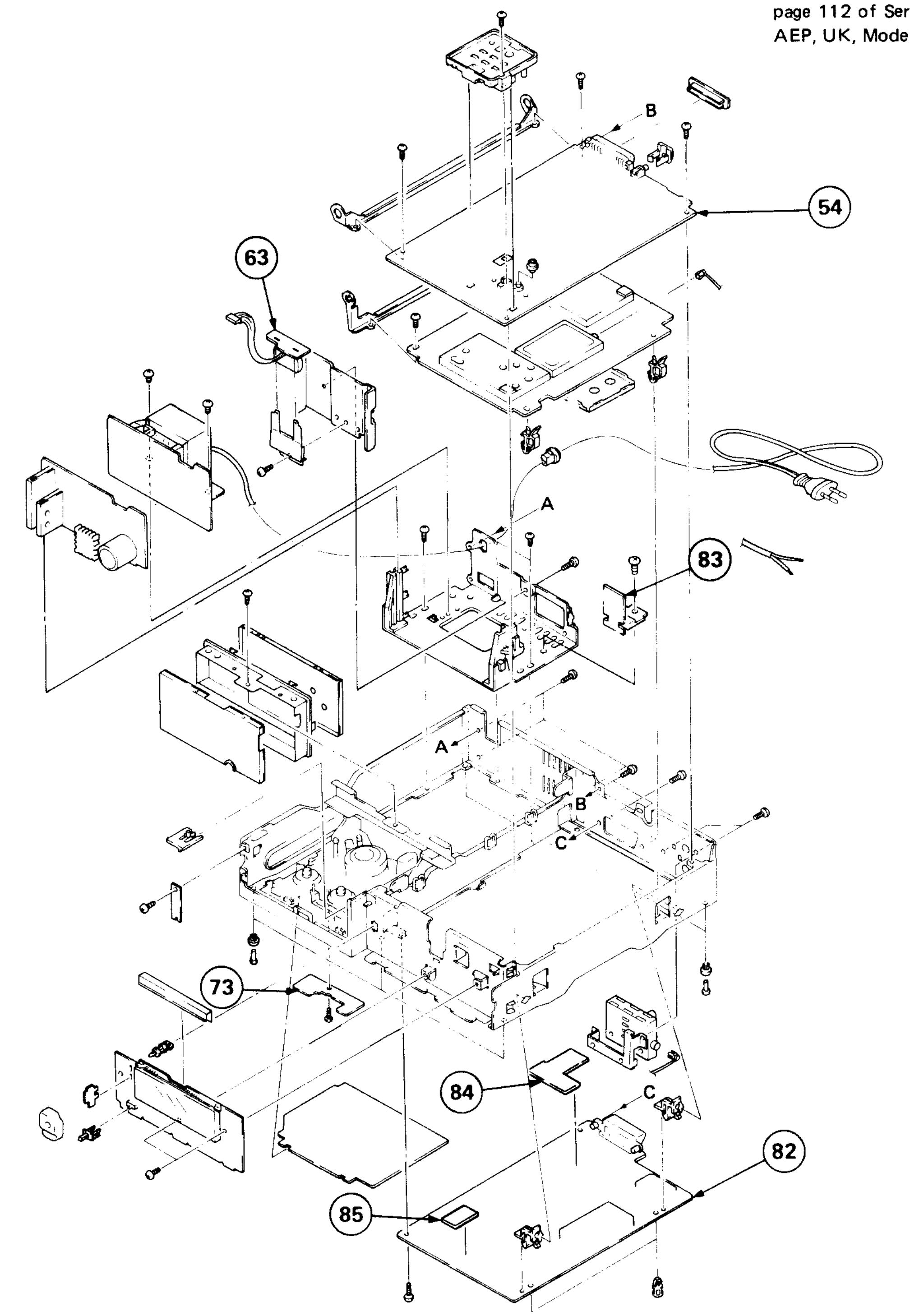
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▨ : conductor side pattern.
- 🟥 : B + pattern.
- 🟧 : B – pattern.
- Digital transistor (TA-29A/B: Q008, 015, 017, 501) transistor with resistors.
  Refer to the TA-29A/B board schematic diagram for digital transistor.


TA-29A (AEP model)
TA-29B (UK model)

SECTION 5
EXPLODED VIEWS

5-2. MAIN BOARD AND POWER ASSEMBLIES

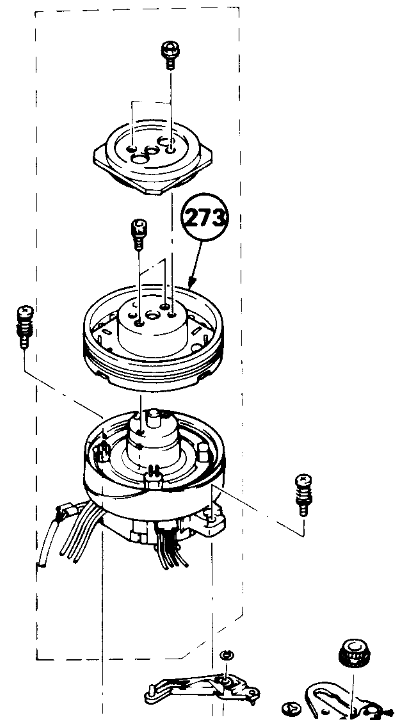
- Regaeding part No. not denoted, see page 112 of Service Manual of EV-A300 AEP, UK, Model.



No	Part No.	Description	Remark
54	*A-7060-298-A	SS-38 BOARD, COMPLETE (AEP MODEL)	
	*A-7060-140-B	SS-38 BOARD, COMPLETE (UK MODEL)	
63	*A-616-181-11	RS-53A BOARD	
73	*1-615-309-11	RS-11A BOARD	
82	*A-7060-653-A	VI-9BG BOARD, COMPLETE	
83	*1-616-182-13	PS-68A BOARD	
84	*1-619-504-11	NC-5 BOARD	
85	*1-617-208-11	SK-9 BOARD	

5-6. CHASSIS ASSEMBLY (3)

- Regaeding part No. not denoted, see page 116 of Service Manual of EV-A300 AEP, UK, Model.



No	Part No.	Description	Remark
273	A-7049-021-A	DRUM ASSY, UPPER (DVR-04-R)	

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS

- MF : μF, PF : μμF

COILS

- MMH : mH, UH : μH

Ref.No	Part No.	Description			Remark
	*A-7060-141-A	TA-29A BOARD, COMPLETE (AEP MODEL)			
	*A-7060-164-A	TA-29B BOARD, COMPLETE (UK MODEL)			
		**********************************			
	⚠1-463-577-31	TUNER, ET (BT-883AD) (AEP MODEL)			
	⚠1-463-593-21	TUNER, ET (BT-882AD) (UK MODEL)			
	*4-336-029-00	PLATE, SHIELD			
		CAPACITOR			
C001	1-102-531-00	CERAMIC	150PF	5%	50V
C002	1-102-530-00	CERAMIC	120PF	5%	50V
C003	1-102-518-00	CERAMIC	33PF	5%	50V
C004	1-102-851-00	CERAMIC	15PF	5%	50V
C005	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C006	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C007	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C008	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C009	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C010	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C011	1-123-379-00	ELECT	0.47MF	20%	50V
C012	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C013	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C014	1-123-318-00	ELECT	33MF	20%	16V
C015	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C016	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C017	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C018	1-102-529-00	CERAMIC	100PF	5%	50V
C019	1-102-504-00	CERAMIC	4PF	0.25PF	50V
C020	1-102-518-00	CERAMIC	33PF	5%	50V
C021	1-102-504-00	CERAMIC	4PF	0.25PF	50V
C022	1-102-529-00	CERAMIC	100PF	5%	50V
C023	1-102-518-00	CERAMIC	33PF	5%	50V
C025	1-123-307-00	ELECT	100MF	20%	10V
C026	1-102-760-00	CERAMIC	68PF	5%	50V (AEP MODEL)
C026	1-102-108-00	CERAMIC	150PF	10%	50V (UK MODEL)
C027	1-123-369-00	ELECT	4.7MF	20%	25V
C028	1-102-959-00	CERAMIC	22PF	5%	50V
C029	1-102-959-00	CERAMIC	22PF	5%	50V
C030	1-101-004-00	CERAMIC	0.01MF		50V
C031	1-101-004-00	CERAMIC	0.01MF		50V
C032	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C033	1-102-959-00	CERAMIC	22PF	5%	50V
C034	1-101-004-00	CERAMIC	0.01MF		50V
C035	1-123-318-00	ELECT	33MF	20%	16V
C036	1-108-807-00	MYLAR	0.018MF	5%	50V
C037	1-123-356-00	ELECT	10MF	20%	16V
C038	1-108-599-00	MYLAR	0.068MF	5%	50V
C039	1-108-599-00	MYLAR	0.068MF	5%	50V
C040	1-102-963-00	CERAMIC	33PF	5%	50V
C041	1-123-318-00	ELECT	33MF	20%	16V
C042	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C043	1-123-369-00	ELECT	4.7MF	20%	25V
C044	1-123-380-00	ELECT	1MF	20%	50V (AEP MODEL)
C045	1-123-380-00	ELECT	1MF	20%	50V (AEP MODEL)
C046	1-123-380-00	ELECT	1MF	20%	50V (AEP MODEL)
C047	1-123-318-00	ELECT	33MF	20%	16V
C048	1-123-330-00	ELECT	22MF	20%	16V
C050	1-102-106-00	CERAMIC	100PF	10%	50V
C051	1-108-603-00	MYLAR	0.1MF	5%	50V
C052	1-123-356-00	ELECT	10MF	20%	50V
C056	1-123-381-00	ELECT	2.2MF	20%	50V
C057	1-102-074-00	CERAMIC	0.001MF	10%	50V
C058	1-123-356-00	ELECT	10MF	20%	16V
C059	1-123-356-00	ELECT	10MF	20%	16V
C060	1-101-004-00	CERAMIC	0.01MF		50V
C061	1-123-318-00	ELECT	33MF	20%	16V
C062	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C063	1-123-356-00	ELECT	10MF	20%	16V
C064	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C066	1-108-603-00	MYLAR	0.1MF	5%	50V
C067	1-123-307-00	ELECT	100MF	20%	10V
C068	1-123-330-00	ELECT	22MF	20%	16V
C069	1-161-025-00	CERAMIC	0.1MF	10%	25V
C070	1-101-004-00	CERAMIC	0.01MF		50V
C071	1-102-113-00	CERAMIC	390PF	10%	50V
C072	1-102-114-00	CERAMIC	470PF	10%	50V
C073	1-106-172-00	MYLAR	0.001MF	5%	50V
C074	1-123-379-00	ELECT	0.47MF	20%	50V
C075	1-123-356-00	ELECT	10MF	20%	16V
C076	1-102-112-00	CERAMIC	330PF	10%	50V
C077	1-102-520-00	CERAMIC	39PF	5%	50V
C078	1-102-754-00	CERAMIC	39PF	5%	50V (AEP MODEL)
C501	1-123-307-00	ELECT	100MF	20%	6.3V
C502	1-123-330-00	ELECT	22MF	20%	16V
C503	1-123-356-00	ELECT	10MF	20%	16V
C504	1-123-380-00	ELECT	1MF	20%	50V
C505	1-123-356-00	ELECT	10MF	20%	16V
C506	1-130-482-00	MYLAR	0.0082MF	5%	50V
C507	1-102-116-00	CERAMIC	680PF	10%	50V
C508	1-136-160-00	MYLAR	0.039MF	5%	50V
C509	1-102-978-00	CERAMIC	220PF	5%	50V
C510	1-102-942-00	CERAMIC	5PF	1PF	50V
C511	1-130-479-00	MYLAR	0.0047MF	5%	50V
C513	1-102-824-00	CERAMIC	470PF	5%	50V
C514	1-123-308-00	ELECT	220MF	20%	6.3V
C516	1-123-307-00	ELECT	100MF	20%	6.3V
C517	1-123-381-00	ELECT	2.2MF	20%	50V
C518	1-161-013-00	CERAMIC	0.01MF	10%	25V
C519	1-130-475-00	MYLAR	0.0022MF	5%	50V
C520	1-130-478-00	MYLAR	0.0039MF	5%	50V
C521	1-102-978-00	CERAMIC	220PF	5%	50V
C522	1-130-473-00	MYLAR	0.0015MF	5%	50V

Ref.No	Part No.	Description			Remark
C523	1-123-379-00	ELECT	0.47MF	20%	50V
C524	1-102-116-00	CERAMIC	680PF	10%	50V
C525	1-161-013-00	CERAMIC	0.01MF	10%	25V
C526	1-161-013-00	CERAMIC	0.01MF	10%	25V
C527	1-161-013-00	CERAMIC	0.01MF	10%	25V
C528	1-130-475-00	MYLAR	0.0022MF	5%	50V
C529	1-101-880-00	CERAMIC	47PF	5%	50V
C530	1-123-380-00	ELECT	1MF	20%	50V
C531	1-123-307-00	ELECT	100MF	20%	6.3V
C532	1-161-013-00	CERAMIC	0.01MF	10%	25V
C533	1-161-013-00	CERAMIC	0.01MF	10%	25V
C534	1-161-013-00	CERAMIC	0.01MF	10%	25V
C535	1-161-013-00	CERAMIC	0.01MF	10%	25V
C537	1-123-380-00	ELECT	1MF	20%	50V
C541	1-123-369-00	ELECT	4.7MF	20%	25V
C542	1-130-477-00	MYLAR	0.0033MF	5%	50V
C550	1-161-059-00	CERAMIC	0.047MF	10%	25V
C701	1-123-306-00	ELECT	47MF	20%	6.3V
C705	1-162-288-31	CERAMIC	330PF	10%	50V
C706	1-123-356-00	ELECT	10MF	20%	16V
C707	1-123-332-00	ELECT	47MF	20%	16V

DISCRIMINATOR

CD001	1-404-407-00	DISCRIMINATOR (UK MODEL)
CD001	1-404-380-00	DISCRIMINATOR, CERAMIC 5.5MHZ (AEP MODEL)

FILTER

CF001	1-527-263-00	CERAMIC FILTER (5.5MHZ) (AEP MODEL)
CF001	1-527-262-00	CERAMIC FILTER (6MHZ) (UK MODEL)

CONNECTOR

CN001	*1-560-890-00	PIN, CONNECTOR 2P
CN006	*1-560-890-00	PIN, CONNECTOR 2P
CN007	*1-560-893-00	PIN, CONNECTOR 5P
CN501	*1-560-893-00	PIN, CONNECTOR 5P
CN502	*1-560-894-00	PIN, CONNECTOR 6P

COMPOSITION CIRCUIT BLOCK

CP501	1-232-788-11	COMPOSITION CIRCUIT BLOCK

TRIMMER

CT001	1-404-134-00	TRAP, CERAMIC (5.5MHZ) (AEP MODEL)
CT001	1-409-333-00	TRAP, CERAMIC (6MHZ) (UK MODEL)

DIODE

D001	8-719-911-19	DIODE 1SS119
D003	8-719-911-19	DIODE 1SS119
D005	8-719-911-19	DIODE 1SS119
D006	8-719-911-19	DIODE 1SS119
D007	8-719-911-19	DIODE 1SS119
D008	8-719-911-19	DIODE 1SS119

Ref.No	Part No.	Description	Remark
D502	8-719-911-19	DIODE 1SS119	
D701	8-719-812-41	DIODE TLR124	

FILTER

FL501	1-235-484-11	FILTER, BAND PASS (1.5MHZ)

IC

IC001	8-759-602-16	IC M54572L (AEP MODEL)
IC002	8-759-276-07	IC TA7607AP
IC003	8-759-103-70	IC UPC1391HA
IC004	8-759-157-40	IC UPC574J
IC005	8-759-729-03	IC NJM2903D
IC006	8-759-040-46	IC MC14046BCP
IC501	8-752-013-70	IC CX20137

COIL

L001	1-404-476-00	COIL, IF
L002	1-404-476-00	COIL, IF
L003	1-408-397-00	MICRO INDUCTOR 1UH
L004	1-408-406-00	MICRO INDUCTOR 5.6UH
L005	1-404-522-11	VIFT
L006	1-408-406-00	MICRO INDUCTOR 5.6UH
L007	1-404-521-21	VIFT
L008	1-404-521-21	VIFT
L009	1-408-408-00	MICRO INDUCTOR 8.2UH
L010	1-408-429-00	MICRO INDUCTOR 470UH
L011	1-408-409-00	MICRO INDUCTOR 10UH
L012	1-408-412-00	MICRO INDUCTOR 18UH
L013	1-408-413-00	MICRO INDUCTOR 22UH
L014	1-408-425-00	MICRO INDUCTOR 220UH
L501	1-408-425-00	MICRO INDUCTOR 220UH
L502	1-408-425-00	MICRO INDUCTOR 220UH

TRANSISTOR

Q001	8-729-105-47	TRANSISTOR 2SC2026
Q002	8-729-117-54	TRANSISTOR 2SA1175
Q003	8-729-245-83	TRANSISTOR 2SC2458
Q004	8-729-245-83	TRANSISTOR 2SC2458
Q005	8-729-245-83	TRANSISTOR 2SC2458
Q006	8-729-603-30	TRANSISTOR 2SC403SP-3
Q007	8-729-245-83	TRANSISTOR 2SC2458
Q008	8-729-900-89	TRANSISTOR DTC144ES (AEP MODEL)
Q009	8-729-245-83	TRANSISTOR 2SC2458
Q010	8-729-117-54	TRANSISTOR 2SA1175
Q011	8-729-245-83	TRANSISTOR 2SC2458
Q012	8-729-178-54	TRANSISTOR 2SC2785
Q015	8-729-900-36	TRANSISTOR DTC124ES
Q016	8-729-113-33	TRANSISTOR 2SB733-4
Q017	8-729-900-36	TRANSISTOR DTC124ES
Q018	8-729-245-83	TRANSISTOR 2SC2458
Q501	8-729-900-89	TRANSISTOR DTC144ES
Q502	8-729-178-54	TRANSISTOR 2SC2785

When indicating parts by reference number, please include the board name.

TA-29A/B

Ref.No	Part No.	Description				Remark
Q703	8-729-178-54	TRANSISTOR 2SC2785				
Q704	8-729-178-54	TRANSISTOR 2SC2785				
Q706	8-729-178-54	TRANSISTOR 2SC2785				
Q707	8-729-117-54	TRANSISTOR 2SA1175				
		RESISTOR				
R001	1-249-429-11	CARBON	10K	5%	1/6W	
R002	1-249-433-11	CARBON	22K	5%	1/6W	
R003	⚠1-249-425-11	CARBON	4.7K	5%	1/6W	
R004	1-247-815-00	CARBON	220	5%	1/6W	
R005	1-249-414-11	CARBON	560	5%	1/6W	
R006	⚠1-249-425-11	CARBON	4.7K	5%	1/6W	
R007	1-247-823-00	CARBON	470	5%	1/6W	
R008	1-247-837-00	CARBON	1.8K	5%	1/6W	
R009	1-247-901-00	CARBON	820K	5%	1/6W	
R010	1-247-833-00	CARBON	1.2K	5%	1/6W	
R011	1-247-815-00	CARBON	220	5%	1/6W	
R012	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R013	1-247-833-00	CARBON	1.2K	5%	1/6W	(AEP MODEL)
R013	1-247-839-00	CARBON	2.2K	5%	1/6W	(UK MODEL)
R014	1-247-823-00	CARBON	470	5%	1/6W	(AEP MODEL)
R014	1-247-833-00	CARBON	1.2K	5%	1/6W	(UK MODEL)
R015	1-247-875-00	CARBON	68K	5%	1/6W	
R016	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R017	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R018	1-249-423-11	CARBON	3.3K	5%	1/6W	
R019	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R020	1-247-891-00	CARBON	330K	5%	1/6W	
R021	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R022	1-247-817-00	CARBON	270	5%	1/6W	
R023	1-247-821-00	CARBON	390	5%	1/6W	
R024	⚠1-249-425-11	CARBON	4.7K	5%	1/6W	
R025	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R026	1-249-441-11	CARBON	100K	5%	1/6W	
R027	1-249-435-11	CARBON	33K	5%	1/6W	
R028	1-249-423-11	CARBON	3.3K	5%	1/6W	
R030	1-247-891-00	CARBON	330K	5%	1/6W	
R031	1-247-839-00	CARBON	2.2K	5%	1/6W	
R032	1-249-440-11	CARBON	82K	5%	1/6W	
R033	1-249-441-11	CARBON	100K	5%	1/6W	
R034	1-249-441-11	CARBON	100K	5%	1/6W	
R035	1-249-429-11	CARBON	10K	5%	1/6W	
R036	1-249-433-11	CARBON	22K	5%	1/6W	
R037	1-249-429-11	CARBON	10K	5%	1/6W	
R038	1-247-839-00	CARBON	2.2K	5%	1/6W	
R039	⚠1-247-719-11	CARBON	3.3K	5%	1/4W	F
R040	1-249-433-11	CARBON	22K	5%	1/6W	
R041	1-249-433-11	CARBON	22K	5%	1/6W	
R042	1-249-433-11	CARBON	22K	5%	1/6W	
R043	1-249-433-11	CARBON	22K	5%	1/6W	
R044	1-249-434-11	CARBON	27K	5%	1/6W	
R045	1-247-857-00	CARBON	12K	5%	1/6W	
R046	1-247-859-00	CARBON	15K	5%	1/6W	
R047	1-249-433-11	CARBON	22K	5%	1/6W	
R048	1-249-429-11	CARBON	10K	5%	1/6W	
R049	1-247-849-00	CARBON	5.6K	5%	1/6W	
R050	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R051	1-247-903-00	CARBON	1M	5%	1/6W	
R052	1-249-433-11	CARBON	22K	5%	1/6W	
R053	1-247-883-00	CARBON	150K	5%	1/6W	
R054	1-247-887-00	CARBON	220K	5%	1/6W	
R055	1-249-429-11	CARBON	10K	5%	1/6W	
R056	1-249-433-11	CARBON	22K	5%	1/6W	
R057	1-247-839-00	CARBON	2.2K	5%	1/6W	
R058	1-249-429-11	CARBON	10K	5%	1/6W	
R059	1-247-899-00	CARBON	680K	5%	1/6W	
R065	1-249-435-11	CARBON	33K	5%	1/6W	
R066	1-247-849-00	CARBON	5.6K	5%	1/6W	
R067	1-247-819-00	CARBON	330	5%	1/6W	(AEP MODEL)
R068	1-247-885-00	CARBON	180K	5%	1/6W	
R069	1-249-437-11	CARBON	47K	5%	1/6W	
R070	1-249-429-11	CARBON	10K	5%	1/6W	
R071	⚠1-249-425-11	CARBON	4.7K	5%	1/6W	
R072	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R076	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R077	1-249-419-11	CARBON	1.5K	5%	1/6W	
R078	1-249-417-11	CARBON	1K	5%	1/6W	
R079	1-249-422-11	CARBON	2.7K	5%	1/6W	
R081	1-247-837-00	CARBON	1.8K	5%	1/6W	
R082	1-247-775-00	CARBON	4.7	5%	1/6W	
R083	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R084	1-247-803-00	CARBON	68	5%	1/6W	
R087	1-249-434-11	CARBON	27K	5%	1/6W	
R088	1-249-434-11	CARBON	27K	5%	1/6W	(AEP MODEL)
R089	1-247-851-00	CARBON	6.8K	5%	1/6W	
R501	1-247-851-00	CARBON	6.8K	5%	1/6W	
R502	1-249-429-11	CARBON	10K	5%	1/6W	
R503	1-249-423-11	CARBON	3.3K	5%	1/6W	
R504	1-249-423-11	CARBON	3.3K	5%	1/6W	
R505	1-249-422-11	CARBON	2.7K	5%	1/6W	
R506	1-247-839-00	CARBON	2.2K	5%	1/6W	
R507	1-249-422-11	CARBON	2.7K	5%	1/6W	
R508	1-249-415-11	CARBON	680	5%	1/6W	
R509	1-247-857-00	CARBON	12K	5%	1/6W	
R510	1-247-845-00	CARBON	3.9K	5%	1/6W	
R512	1-247-829-00	CARBON	820	5%	1/6W	
R513	1-247-829-00	CARBON	820	5%	1/6W	
R517	⚠1-249-425-11	CARBON	4.7K	5%	1/6W	
R518	1-247-889-00	CARBON	270K	5%	1/6W	
R519	1-247-903-00	CARBON	1M	5%	1/6W	
R523	1-247-840-00	CARBON	20K	5%	1/6W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description				Remark
R524	1-249-422-11	CARBON	2.7K	5%	1/6W	
R525	1-249-432-11	CARBON	18K	5%	1/6W	
R526	1-249-433-11	CARBON	22K	5%	1/6W	
R527	1-249-432-11	CARBON	18K	5%	1/6W	
R528	1-247-839-00	CARBON	2.2K	5%	1/6W	
R529	1-249-437-11	CARBON	47K	5%	1/6W	
R531	1-247-839-00	CARBON	2.2K	5%	1/6W	
R532	1-249-423-11	CARBON	3.3K	5%	1/6W	
R533	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R535	1-247-845-00	CARBON	3.9K	5%	1/6W	
R536	1-249-417-11	CARBON	1K	5%	1/6W	
R537	1-249-435-11	CARBON	33K	5%	1/6W	
R538	1-247-875-00	CARBON	68K	5%	1/6W	
R539	⚠1-249-417-11	CARBON	1K	5%	1/6W	
R541	1-249-429-11	CARBON	10K	5%	1/6W	
R543	⚠1-249-425-11	CARBON	4.7K	5%	1/6W	
R552	1-247-851-00	CARBON	6.8K	5%	1/6W	
R553	⚠1-247-831-00	CARBON	1K	5%	1/6W	
R554	1-249-437-11	CARBON	47K	5%	1/6W	
R555	1-249-437-11	CARBON	47K	5%	1/6W	
R556	1-247-837-00	CARBON	1.8K	5%	1/6W	
R557	1-247-845-00	CARBON	3.9K	5%	1/6W	
R564	1-249-432-11	CARBON	18K	5%	1/6W	
R5[illegible]2	1-247-867-00	CARBON	33K	5%	1/6W	
R593	1-247-867-00	CARBON	33K	5%	1/6W	
R701	1-247-821-00	CARBON	390	5%	1/6W	
R702	1-247-821-00	CARBON	390	5%	1/6W	
R703	1-249-405-11	CARBON	100	5%	1/6W	
R704	1-249-405-11	CARBON	100	5%	1/6W	
R705	1-249-441-11	CARBON	100K	5%	1/6W	
R706	1-247-833-31	CARBON	1.2K	5%	1/6W	
R707	1-247-821-31	CARBON	390	5%	1/6W	
R708	1-249-441-11	CARBON	100K	5%	1/6W	
R717	1-247-845-00	CARBON	3.9K	5%	1/6W	
R718	1-247-807-00	CARBON	100	5%	1/6W	
R719	1-247-791-00	CARBON	22	5%	1/6W	
R720	⚠1-247-831-00	CARBON	1K	5%	1/6W	
R721	1-247-819-00	CARBON	330	5%	1/6W	
R722	1-247-783-00	CARBON	10	5%	1/6W	

VARIABLE RESISTOR

RV001	1-228-993-00	RES, ADJ, CARBON 4.7K
RV501	1-228-995-00	RES, ADJ, CARBON 22K
RV502	1-228-994-00	RES, ADJ, CARBON 10K
RV503	1-228-993-00	RES, ADJ, CARBON 4.7K

FILTER

SF001	1-404-433-00	SAWF

*A-7060-298-B SS-38 BOARD, COMPLETE (AEP MODEL)
*A-7060-140-B SS-38 BOARD, COMPLETE (UK MODEL)
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CAPACITOR

Ref.No	Part No.	Description				Remark
C001	1-130-489-00	MYLAR	0.033MF	5%	50V	
C004	1-123-356-00	ELECT	10MF	20%	16V	
C005	1-123-380-00	ELECT	1MF	20%	50V	
C006	1-123-380-00	ELECT	1MF	20%	50V	
C010	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C098	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C099	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C102	1-161-055-00	CERAMIC	0.022MF	10%	25V	
C103	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C105	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C106	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C107	1-101-880-00	CERAMIC	47PF	5%	50V	
C108	1-101-880-00	CERAMIC	47PF	5%	50V	
C109	1-161-043-00	CERAMIC	0.0022MF	10%	25V	
C110	1-125-373-11	DOUBLE LAYERS	22000MF		5.5V	
C111	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C112	1-123-356-00	ELECT	10MF	20%	16V	
C113	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C114	1-123-379-00	ELECT	0.47MF	20%	50V	
C115	1-123-379-00	ELECT	0.47MF	20%	50V	
C116	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C117	1-123-380-00	ELECT	1MF	20%	50V	
C118	1-161-059-00	CERAMIC	0.047MF	10%	25V	
C121	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C122	1-102-973-00	CERAMIC	100PF	5%	50V	
C123	1-131-343-00	TANTALUM	0.22MF	20%	35V	
C131	1-119-353-00	ELECT	220MF		10V	
C136	1-161-059-00	CERAMIC	0.047MF	10%	25V	
C138	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C190	1-102-973-00	CERAMIC	100PF	5%	50V	
C191	1-102-973-00	CERAMIC	100PF	5%	50V	
C201	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C202	1-124-271-00	ELECT	1MF	20%	50V	
C203	1-102-973-00	CERAMIC	100PF	5%	50V	
C209	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C218	1-123-356-00	ELECT	10MF	20%	16V	
C219	1-123-608-00	ELECT	0.22MF	20%	50V	
C220	1-161-047-00	CERAMIC	0.0047MF	10%	25V	
C231	1-124-268-00	ELECT	0.22MF	20%	50V	
C233	1-124-275-00	ELECT	2.2MF	20%	35V	
C234	1-161-059-00	CERAMIC	0.047MF	10%	25V	
C241	1-124-282-00	ELECT	22MF	20%	25V	
C299	1-123-356-00	ELECT	10MF	20%	16V	
C301	1-102-517-00	CERAMIC	30PF	5%	50V	
C302	1-120-531-00	CERAMIC	150PF	5%	50V	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

SS-38

Ref.No	Part No.	Description			Remark
C303	1-102-905-00	CERAMIC	130PF	5%	50V
C304	1-102-905-00	CERAMIC	130PF	5%	50V
C305	1-102-905-00	CERAMIC	130PF	5%	50V
C306	1-102-905-00	CERAMIC	130PF	5%	50V
C307	1-124-271-00	ELECT	1MF	20%	50V
C308	1-161-055-00	CERAMIC	0.022MF	10%	25V
C309	1-123-330-00	ELECT	22MF	20%	16V
C310	1-123-330-00	ELECT	22MF	20%	16V
C311	1-123-330-00	ELECT	22MF	20%	16V
C320	1-123-330-00	ELECT	22MF	20%	16V
C321	1-161-055-00	CERAMIC	0.022MF	10%	25V
C322	1-123-330-00	ELECT	22MF	20%	16V
C333	1-161-055-00	CERAMIC	0.022MF	10%	25V
C350	1-124-271-00	ELECT	1MF	20%	50V
C401	1-161-013-00	CERAMIC	0.01MF	10%	25V
C402	1-161-013-00	CERAMIC	0.01MF	10%	25V
C501	1-130-475-00	MYLAR	0.0022MF	5%	50V
C502	1-130-475-00	MYLAR	0.0022MF	5%	50V

CONNECTOR

CN101	*1-560-895-00	PIN, CONNECTOR 7P
CN102	*1-560-900-00	PIN, CONNECTOR 12P
CN103	*1-560-892-00	PIN, CONNECTOR 4P
CN105	*1-560-897-00	PIN, CONNECTOR 9P
CN106	*1-560-897-00	PIN, CONNECTOR 9P
CN107	*1-560-895-00	PIN, CONNECTOR 7P
CN108	*1-560-893-00	PIN, CONNECTOR 5P
CN111	*1-560-895-00	PIN, CONNECTOR 7P
CN112	*1-560-890-00	PIN, CONNECTOR 2P
CN113	*1-560-890-00	PIN, CONNECTOR 2P
CN114	*1-560-895-00	PIN, CONNECTOR 7P
CN116	1-562-765-11	SOCKET 21P
CN117	*1-560-894-00	PIN, CONNECTOR 6P
CN119	*1-560-890-00	PIN, CONNECTOR 2P
CN201	*1-560-895-00	PIN, CONNECTOR 7P
CN202	*1-560-894-00	PIN, CONNECTOR 6P
CN301	*1-560-892-00	PIN, CONNECTOR 4P
CN601	*1-560-891-00	PIN, CONNECTOR 3P

COMPOSITION CIRCUIT BLOCK

Ref.No	Part No.	Description	Remark
CP006	1-232-786-11	COMPOSITION CIRCUIT BLOCK	
CP008	1-232-789-11	COMPOSITION CIRCUIT BLOCK	
CP009	1-232-787-11	COMPOSITION CIRCUIT BLOCK	
CP010	1-232-790-11	COMPOSITION CIRCUIT BLOCK	
CP011	1-232-845-11	COMPOSITION CIRCUIT BLOCK	
CP012	1-232-786-11	COMPOSITION CIRCUIT BLOCK	
CP013	1-232-851-11	COMPOSITION CIRCUIT BLOCK	
CP014	1-232-782-11	COMPOSITION CIRCUIT BLOCK	
CP015	1-232-783-11	COMPOSITION CIRCUIT BLOCK	
CP016	1-232-784-11	COMPOSITION CIRCUIT BLOCK	
CP018	1-232-841-11	COMPOSITION CIRCUIT BLOCK	
CP020	1-232-852-11	COMPOSITION CIRCUIT BLOCK	
CP021	1-232-846-12	COMPOSITION CIRCUIT BLOCK	
CP022	1-232-842-11	COMPOSITION CIRCUIT BLOCK	
CP023	1-232-924-11	COMPOSITION CIRCUIT BLOCK	
CP024	1-232-842-11	COMPOSITION CIRCUIT BLOCK	
CP028	1-232-923-11	COMPOSITION CIRCUIT BLOCK	
CP029	1-232-844-11	COMPOSITION CIRCUIT BLOCK	
CP030	1-232-782-11	COMPOSITION CIRCUIT BLOCK	
CP031	1-232-925-11	COMPOSITION CIRCUIT BLOCK	
CP032	1-232-930-11	COMPOSITION CIRCUIT BLOCK	
CP033	1-232-926-11	COMPOSITION CIRCUIT BLOCK	

DIODE

D004	8-719-911-19	DIODE 1SS119
D005	8-719-000-06	DIODE MC921
D102	8-719-000-06	DIODE MC921
D104	8-719-000-12	DIODE MC931
D106	8-719-000-12	DIODE MC931
D108	8-719-101-32	DIODE RD2.7EL1
D109	8-719-000-06	DIODE MC921
D111	8-719-911-19	DIODE 1SS119
D126	8-719-113-07	DIODE RD13E-B
D131	8-719-113-07	DIODE RD13E-B
D150	8-719-100-38	DIODE RD6.2EB2
D151	8-719-100-38	DIODE RD6.2EB2
D204	8-719-000-12	DIODE MC931
D210	8-719-000-04	DIODE MC911
D301	8-719-911-19	DIODE 1SS119
D302	8-719-911-19	DIODE 1SS119
D308	8-719-911-19	DIODE 1SS119
D309	8-719-911-19	DIODE 1SS119
D310	8-719-911-19	DIODE 1SS119
D501	8-719-911-19	DIODE 1SS119
D502	8-719-911-19	DIODE 1SS119

FILTER

FL301	1-235-396-21	BPF
FL302	1-235-395-21	BPF

IC

IC101	8-759-913-87	IC MB88551-159N
IC102	8-752-320-11	IC CXK1001P
IC103	8-759-913-67	IC MB3763P
IC104	8-759-913-67	IC MB3763P
IC105	8-759-240-30	IC TC4030BP
IC107	8-759-103-93	IC UPC393C
IC108	8-759-200-07	IC TC40H157P
IC109	8-759-602-64	IC M50761-692P
IC110	8-759-240-11	IC TC4011BP
IC111	8-759-045-38	IC MC14538BCP
IC112	8-759-700-81	IC NJM555D
IC201	8-752-013-50	IC CX20135
IC202	8-759-200-56	IC TC4526BP
IC203	8-759-135-80	IC UPC358C
IC204	8-759-240-66	IC TC4066BP

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description	Remark
IC301	8-752-203-20	IC CX22032	
IC302	1-807-153-11	IC (DIFFERENTIAL DETECTOR)	
IC303	8-759-602-76	IC M50763-633SP	
IC304	8-759-040-94	IC MC14094BCP	
IC305	8-759-200-07	IC TC40H157P	
IC306	8-759-240-53	IC TC4053BP	
IC401	8-759-135-80	IC UPC358C	
IC402	8-759-045-38	IC MC14538BCP	
IC404	8-759-240-66	IC TC4066BP	
IC501	8-759-045-38	IC MC14538BCP	
		JACK	
J118	1-507-562-00	JACK	
		COIL	
L101	1-407-169-XX	MICRO INDUCTOR 100UH	
L601	1-408-411-00	MICRO INDUCTOR 15UH	
		IC LINK	
PS100	⚠1-532-605-00	LINK, IC	
PS101	⚠1-532-727-11	LINK, IC	
PS102	⚠1-532-605-00	LINK, IC	
		TRANSISTOR	
Q001	8-729-900-33	TRANSISTOR DTC144EF	
Q003	8-729-245-83	TRANSISTOR 2SC2458	
Q009	8-729-900-89	TRANSISTOR DTC144ES	
Q010	8-729-900-89	TRANSISTOR DTC144ES	
Q101	8-729-177-32	TRANSISTOR 2SD773	
Q103	8-729-900-89	TRANSISTOR DTC144ES	
Q104	8-729-245-83	TRANSISTOR 2SC2458	
Q105	8-729-245-83	TRANSISTOR 2SC2458	
Q107	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q111	8-729-900-63	TRANSISTOR DTA124ES	
Q112	8-729-900-80	TRANSISTOR DTC114ES	
Q113	8-729-900-63	TRANSISTOR DTA124ES	
Q114	8-729-245-83	TRANSISTOR 2SC2458	
Q116	8-729-245-83	TRANSISTOR 2SC2458	
Q117	8-729-245-83	TRANSISTOR 2SC2458	
Q118	8-729-245-83	TRANSISTOR 2SC2458	
Q122	8-729-900-89	TRANSISTOR DTC144ES	
Q123	8-729-900-89	TRANSISTOR DTC144ES	
Q124	8-729-245-83	TRANSISTOR 2SC2458	
Q125	8-729-900-89	TRANSISTOR DTC144ES	
Q126	8-729-900-89	TRANSISTOR DTC144ES	
Q127	8-729-900-89	TRANSISTOR DTC144ES	
Q128	8-729-900-89	TRANSISTOR DTC144ES	
Q129	8-729-900-89	TRANSISTOR DTC144ES	
Q130	8-729-900-80	TRANSISTOR DTC114ES	
Q131	8-729-900-36	TRANSISTOR DTC124ES	
Q135	8-729-245-83	TRANSISTOR 2SC2458	
Q137	8-729-900-89	TRANSISTOR DTC144ES	
Q151	8-729-900-89	TRANSISTOR DTC144ES	
Q201	8-729-245-83	TRANSISTOR 2SC2458	
Q202	8-729-245-83	TRANSISTOR 2SC2458	
Q203	8-729-204-83	TRANSISTOR 2SA1048	
Q204	8-729-245-83	TRANSISTOR 2SC2458	
Q205	8-729-204-83	TRANSISTOR 2SA1048	
Q206	8-729-204-83	TRANSISTOR 2SA1048	
Q207	8-729-900-89	TRANSISTOR DTC144ES	
Q211	8-729-900-65	TRANSISTOR DTA144ES	
Q212	8-729-900-65	TRANSISTOR DTA144ES	
Q213	8-729-900-89	TRANSISTOR DTC144ES	
Q214	8-729-900-89	TRANSISTOR DTC144ES	
Q215	8-729-900-65	TRANSISTOR DTA144ES	
Q219	8-729-900-89	TRANSISTOR DTC144ES	
Q221	8-729-900-89	TRANSISTOR DTC144ES	
Q301	8-729-115-30	TRANSISTOR 2SK105A-30	
Q302	8-729-115-30	TRANSISTOR 2SK105A-30	
Q303	8-729-115-30	TRANSISTOR 2SK105A-30	
Q304	8-729-115-30	TRANSISTOR 2SK105A-30	
Q307	8-729-115-30	TRANSISTOR 2SK105A-30	
Q401	8-729-900-89	TRANSISTOR DTC144ES	
Q402	8-729-900-89	TRANSISTOR DTC144ES	
		RESISTOR	
R002	1-249-429-11	CARBON 10K 5% 1/6W	
R003	1-247-895-00	CARBON 470K 5% 1/6W	
R008	1-249-425-11	CARBON 4.7K 5% 1/6W	
R009	1-249-441-11	CARBON 100K 5% 1/6W	
R010	1-249-417-11	CARBON 1K 5% 1/6W	
R028	1-247-899-00	CARBON 680K 5% 1/6W	
R099	1-249-417-11	CARBON 1K 5% 1/6W	
R100	1-249-429-11	CARBON 10K 5% 1/6W	
R101	1-249-437-11	CARBON 47K 5% 1/6W	
R102	1-247-859-00	CARBON 15K 5% 1/6W	
R103	1-247-853-00	CARBON 8.2K 5% 1/6W	
R104	1-249-425-11	CARBON 4.7K 5% 1/6W	
R105	1-249-423-11	CARBON 3.3K 5% 1/6W	
R106	1-247-839-00	CARBON 2.2K 5% 1/6W	
R107	1-247-837-00	CARBON 1.8K 5% 1/6W	
R108	1-247-857-00	CARBON 12K 5% 1/6W	
R119	1-249-429-11	CARBON 10K 5% 1/6W	
R120	1-247-823-00	CARBON 470 5% 1/6W	
R121	1-249-429-11	CARBON 10K 5% 1/6W	
R131	1-249-417-11	CARBON 1K 5% 1/6W	
R132	1-249-417-11	CARBON 1K 5% 1/6W	
R135	1-249-423-11	CARBON 3.3K 5% 1/6W	
R136	1-249-429-11	CARBON 10K 5% 1/6W	
R138	1-249-429-11	CARBON 10K 5% 1/6W	
R139	1-249-429-11	CARBON 10K 5% 1/6W	
R145	1-247-857-00	CARBON 12K 5% 1/6W	
R155	1-249-441-11	CARBON 100K 5% 1/6W	
R166	1-249-429-11	CARBON 10K 5% 1/6W	
R167	1-249-437-11	CARBON 47K 5% 1/6W	
R168	1-249-437-11	CARBON 47K 5% 1/6W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

SS-38 VI-9BG

Ref.No	Part No.	Description				Remark
R169	1-249-437-11	CARBON	47K	5%	1/6W	
R172	1-249-429-11	CARBON	10K	5%	1/6W	
R173	1-249-417-11	CARBON	1K	5%	1/6W	
R174	1-249-437-11	CARBON	47K	5%	1/6W	
R175	1-249-441-11	CARBON	100K	5%	1/6W	
R176	1-249-425-11	CARBON	4.7K	5%	1/6W	
R179	1-249-441-11	CARBON	100K	5%	1/6W	
R184	1-249-417-11	CARBON	1K	5%	1/6W	
R185	1-249-417-11	CARBON	1K	5%	1/6W	
R186	1-249-417-11	CARBON	1K	5%	1/6W	
R187	1-249-417-11	CARBON	1K	5%	1/6W	
R188	1-249-417-11	CARBON	1K	5%	1/6W	
R189	1-249-417-11	CARBON	1K	5%	1/6W	
R190	1-249-417-11	CARBON	1K	5%	1/6W	
R191	1-249-417-11	CARBON	1K	5%	1/6W	
R192	1-249-417-11	CARBON	1K	5%	1/6W	
R193	1-249-417-11	CARBON	1K	5%	1/6W	
R194	1-249-417-11	CARBON	1K	5%	1/6W	
R195	1-247-839-00	CARBON	2.2K	5%	1/6W	
R196	1-247-821-00	CARBON	390	5%	1/6W	
R202	1-249-423-11	CARBON	3.3K	5%	1/6W	
R203	1-249-434-11	CARBON	27K	5%	1/6W	
R206	1-247-853-00	CARBON	8.2K	5%	1/6W	
R207	1-247-849-00	CARBON	5.6K	5%	1/6W	
R208	1-247-849-00	CARBON	5.6K	5%	1/6W	
R209	1-249-433-11	CARBON	22K	5%	1/6W	
R210	1-247-873-00	CARBON	56K	5%	1/6W	
R211	1-247-869-00	CARBON	39K	5%	1/6W	
R212	1-249-435-11	CARBON	33K	5%	1/6W	
R213	1-249-423-11	CARBON	3.3K	5%	1/6W	
R214	1-249-432-11	CARBON	18K	5%	1/6W	
R231	1-249-434-11	CARBON	27K	5%	1/6W	
R232	1-247-869-00	CARBON	39K	5%	1/6W	
R235	1-249-434-11	CARBON	27K	5%	1/6W	
R236	1-249-441-11	CARBON	100K	5%	1/6W	
R242	1-249-441-11	CARBON	100K	5%	1/6W	
R243	1-249-429-11	CARBON	10K	5%	1/6W	
R246	1-249-437-11	CARBON	47K	5%	1/6W	
R260	1-249-429-11	CARBON	10K	5%	1/6W	
R272	1-249-437-11	CARBON	47K	5%	1/6W	
R275	1-249-429-11	CARBON	10K	5%	1/6W	
R280	1-247-849-00	CARBON	5.6K	5%	1/6W	
R284	1-249-425-11	CARBON	4.7K	5%	1/6W	
R285	1-247-899-00	CARBON	680K	5%	1/6W	
R286	1-249-437-11	CARBON	47K	5%	1/6W	
R294	1-247-845-00	CARBON	3.9K	5%	1/6W	
R295	1-247-859-00	CARBON	15K	5%	1/6W	
R301	1-249-432-11	CARBON	18K	5%	1/6W	
R302	1-249-429-11	CARBON	10K	5%	1/6W	
R303	1-249-429-11	CARBON	10K	5%	1/6W	
R304	1-249-437-11	CARBON	47K	5%	1/6W	
R307	1-249-429-11	CARBON	10K	5%	1/6W	
R310	1-249-441-11	CARBON	100K	5%	1/6W	
R311	1-249-441-11	CARBON	100K	5%	1/6W	
R312	1-249-429-11	CARBON	10K	5%	1/6W	
R313	1-247-873-00	CARBON	56K	5%	1/6W	
R318	1-249-433-11	CARBON	22K	5%	1/6W	
R319	1-247-857-00	CARBON	12K	5%	1/6W	
R327	1-247-887-00	CARBON	220K	5%	1/6W	
R350	1-249-441-11	CARBON	100K	5%	1/6W	
R351	1-249-433-11	CARBON	22K	5%	1/6W	
R404	1-249-437-11	CARBON	47K	5%	1/6W	
R408	1-249-437-11	CARBON	47K	5%	1/6W	
R409	1-247-893-00	CARBON	390K	5%	1/6W	
R410	1-247-895-00	CARBON	470K	5%	1/6W	
R425	1-249-429-11	CARBON	10K	5%	1/6W	
R501	1-249-433-11	CARBON	22K	5%	1/6W	
R502	1-249-429-11	CARBON	10K	5%	1/6W	
R503	1-247-881-00	CARBON	120K	5%	1/6W	
R504	1-249-417-11	CARBON	1K	5%	1/6W	
R604	1-249-405-11	CARBON	100	5%	1/6W	
R950	1-247-855-00	CARBON	10K	5%	1/6W	

VARIABLE RESISTOR

RV201	1-228-995-00	RES, ADJ, CARBON 22K
RV202	1-228-995-00	RES, ADJ, CARBON 22K
RV203	1-228-998-00	RES, ADJ, METAL GLAZE 220K
RV301	1-228-996-00	RES, ADJ, CARBON 47K
RV401	1-228-997-00	RES, ADJ, CARBON 100K
RV402	1-228-997-00	RES, ADJ, CARBON 100K
RV501	1-228-997-00	RES, ADJ, METAL GLAZE 100K
RV601⚠	1-230-660-11	RES, VAR, CARBON 1K

SWITCH

S101	1-570-157-11	SWITCH, SLIDE
S102	1-554-174-00	SWITCH, KEY BOARD
S103	1-554-174-00	SWITCH, KEY BOARD
S104	1-554-174-00	SWITCH, KEY BOARD
S105	1-554-174-00	SWITCH, KEY BOARD

CRYSTAL

X101	1-567-346-11	OSCILLATOR, CERAMIC
X102	1-527-965-00	OSCILLATOR, CERAMIC

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*A-7060-653-A VI-9BG BOARD, COMPLETE
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CAPACITOR

C001	1-161-025-00	CERAMIC	0.1MF	10%	25V
C002	1-102-824-00	CERAMIC	470PF	5%	50V
C003	1-101-006-00	CERAMIC	0.047MF		50V
C004	1-161-025-00	CERAMIC	0.1MF	10%	25V
C006	1-102-074-00	CERAMIC	0.001MF	10%	50V
C007	1-101-006-00	CERAMIC	0.047MF		50V
C008	1-123-356-00	ELECT	10MF	20%	16V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description			Remark
C009	1-123-356-00	ELECT	10MF	20%	16V
C010	1-123-356-00	ELECT	10MF	20%	16V
C011	1-101-006-00	CERAMIC	0.047MF		50V
C012	1-101-006-00	CERAMIC	0.047MF		50V
C013	1-123-380-00	ELECT	1MF	20%	50V
C014	1-123-309-00	ELECT	330MF	20%	6.3V
C015	1-123-330-00	ELECT	22MF	20%	16V
C016	1-123-369-00	ELECT	4.7MF	20%	25V
C017	1-123-369-00	ELECT	4.7MF	20%	25V
C019	1-123-356-00	ELECT	10MF	20%	16V
C020	1-101-006-00	CERAMIC	0.047MF		50V
C021	1-101-888-00	CERAMIC	68PF	5%	50V
C022	1-101-888-00	CERAMIC	68PF	5%	50V
C023	1-102-976-00	CERAMIC	180PF	5%	50V
C024	1-101-004-00	CERAMIC	0.01MF		50V
C025	1-101-006-00	CERAMIC	0.047MF		50V
C026	1-101-006-00	CERAMIC	0.047MF		50V
C027	1-123-608-00	ELECT	0.22MF	20%	50V
C028	1-123-356-00	ELECT	10MF	20%	16V
C029	1-123-356-00	ELECT	10MF	20%	16V
C030	1-102-820-00	CERAMIC	330PF	5%	50V
C031	1-102-973-00	CERAMIC	100PF	5%	50V
C032	1-102-820-00	CERAMIC	330PF	5%	50V
C033	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C034	1-102-959-00	CERAMIC	22PF	5%	50V
C035	1-102-959-00	CERAMIC	22PF	5%	50V
C038	1-101-006-00	CERAMIC	0.047MF		50V
C040	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C041	1-101-361-00	CERAMIC	150PF	5%	50V
C042	1-123-369-00	ELECT	4.7MF	20%	25V
C045	1-123-382-00	ELECT	3.3MF	20%	50V
C046	1-101-880-00	CERAMIC	47PF	5%	50V
C049	1-101-006-00	CERAMIC	0.047MF		50V
C050	1-102-980-00	CERAMIC	270PF	5%	50V
C052	1-101-005-00	CERAMIC	0.022MF		50V
C053	1-101-006-00	CERAMIC	0.047MF		50V
C054	1-101-004-00	CERAMIC	0.01MF		50V
C056	1-102-945-00	CERAMIC	8PF	0.5PF	50V
C057	1-102-963-00	CERAMIC	33PF	5%	50V
C058	1-101-006-00	CERAMIC	0.047MF		50V
C059	1-102-976-00	CERAMIC	180PF	5%	50V
C060	1-102-976-00	CERAMIC	180PF	5%	50V
C061	1-101-361-00	CERAMIC	150PF	5%	50V
C064	1-102-976-00	CERAMIC	180PF	5%	50V
C065	1-102-971-00	CERAMIC	82PF	5%	50V
C066	1-102-946-00	CERAMIC	9PF	0.5PF	50V
C067	1-102-820-00	CERAMIC	330PF	5%	50V
C068	1-102-960-00	CERAMIC	24PF	5%	50V
C073	1-101-006-00	CERAMIC	0.047MF		50V
C076	1-102-947-00	CERAMIC	10PF	5%	50V
C100	1-101-006-00	CERAMIC	0.047MF		50V
C101	1-102-074-00	CERAMIC	0.001MF	10%	50V
C102	1-101-004-00	CERAMIC	0.01MF		50V

Ref.No	Part No.	Description			Remark
C103	1-101-884-00	CERAMIC	56PF	5%	50V
C104	1-102-959-00	CERAMIC	22PF	5%	50V
C105	1-123-381-00	ELECT	2.2MF	20%	50V
C106	1-123-369-00	ELECT	4.7MF	20%	25V
C107	1-101-884-00	CERAMIC	56PF	5%	50V
C109	1-101-006-00	CERAMIC	0.047MF		50V
C110	1-123-381-00	ELECT	2.2MF	20%	50V
C111	1-123-369-00	ELECT	4.7MF	20%	25V
C112	1-123-369-00	ELECT	4.7MF	20%	25V
C114	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C115	1-101-888-00	CERAMIC	68PF	5%	50V
C116	1-102-815-00	CERAMIC	110PF	5%	50V
C117	1-102-978-00	CERAMIC	220PF	5%	50V
C118	1-123-307-00	ELECT	100MF	20%	6.3V
C119	1-101-888-00	CERAMIC	68PF	5%	50V
C120	1-101-886-00	CERAMIC	62PF	5%	50V
C121	1-101-004-00	CERAMIC	0.01MF		50V
C122	1-101-884-00	CERAMIC	56PF	5%	50V
C123	1-101-004-00	CERAMIC	0.01MF		50V
C124	1-102-959-00	CERAMIC	22PF	5%	50V
C125	1-123-356-00	ELECT	10MF	20%	16V
C126	1-102-074-00	CERAMIC	0.001MF	10%	50V
C127	1-102-074-00	CERAMIC	0.001MF	10%	50V
C128	1-101-006-00	CERAMIC	0.047MF		50V
C129	1-123-308-00	ELECT	220MF	20%	6.3V
C130	1-101-006-00	CERAMIC	0.047MF		50V
C131	1-101-006-00	CERAMIC	0.047MF		50V
C132	1-123-330-00	ELECT	22MF	20%	16V
C133	1-101-004-00	CERAMIC	0.01MF		50V
C135	1-102-074-00	CERAMIC	0.001MF	10%	50V
C136	1-102-966-00	CERAMIC	43PF	5%	50V
C137	1-102-074-00	CERAMIC	0.001MF	10%	50V
C139	1-102-074-00	CERAMIC	0.001MF	10%	50V
C140	1-102-127-00	CERAMIC	0.0068MF	10%	50V
C141	1-123-382-00	ELECT	3.3MF	20%	50V
C142	1-102-074-00	CERAMIC	0.001MF	10%	50V
C143	1-102-074-00	CERAMIC	0.001MF	10%	50V
C144	1-101-006-00	CERAMIC	0.047MF		50V
C145	1-123-356-00	ELECT	10MF	20%	16V
C146	1-102-815-00	CERAMIC	110PF	5%	50V
C147	1-101-004-00	CERAMIC	0.01MF		50V
C148	1-102-074-00	CERAMIC	0.001MF	10%	50V
C150	1-102-074-00	CERAMIC	0.001MF	10%	50V
C151	1-101-361-00	CERAMIC	150PF	5%	50V
C152	1-102-824-00	CERAMIC	470PF	5%	50V
C153	1-102-953-00	CERAMIC	18PF	5%	50V
C154	1-123-381-00	ELECT	2.2MF	20%	50V
C156	1-102-953-00	CERAMIC	18PF	5%	50V
C159	1-124-239-00	ELECT	6.8MF	20%	25V
C160	1-123-330-00	ELECT	22MF	20%	16V
C161	1-102-963-00	CERAMIC	33PF	5%	50V
C162	1-101-884-00	CERAMIC	56PF	5%	50V
C163	1-102-978-00	CERAMIC	220PF	5%	50V

When indicating parts by reference number, please include the board name.

VI-9BG

Ref.No	Part No.	Description			Remark
C164	1-102-978-00	CERAMIC	220PF	5%	50V
C172	1-101-880-00	CERAMIC	47PF	5%	50V
C200	1-101-006-00	CERAMIC	0.047MF		50V
C201	1-101-006-00	CERAMIC	0.047MF		50V
C202	1-101-004-00	CERAMIC	0.01MF		50V
C203	1-101-004-00	CERAMIC	0.01MF		50V
C204	1-101-004-00	CERAMIC	0.01MF		50V
C206	1-101-004-00	CERAMIC	0.01MF		50V
C207	1-102-074-00	CERAMIC	0.001MF	10%	50V
C208	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C209	1-123-356-00	ELECT	10MF	20%	16V
C210	1-101-004-00	CERAMIC	0.01MF		50V
C211	1-102-820-00	CERAMIC	330PF	5%	50V
C212	1-101-004-00	CERAMIC	0.01MF		50V
C213	1-102-820-00	CERAMIC	330PF	5%	50V
C214	1-101-006-00	CERAMIC	0.047MF		50V
C215	1-102-820-00	CERAMIC	330PF	5%	50V
C216	1-102-947-00	CERAMIC	10PF	5%	50V
C217	1-102-966-00	CERAMIC	43PF	5%	50V
C218	1-102-074-00	CERAMIC	0.001MF	10%	50V
C219	1-102-820-00	CERAMIC	330PF	5%	50V
C220	1-102-820-00	CERAMIC	330PF	5%	50V
C221	1-101-004-00	CERAMIC	0.01MF		50V
C222	1-124-239-00	ELECT	6.8MF	20%	25V
C223	1-101-005-00	CERAMIC	0.022MF		50V
C224	1-123-369-00	ELECT	4.7MF	20%	25V
C225	1-123-356-00	ELECT	10MF	20%	16V
C227	1-101-004-00	CERAMIC	0.01MF		50V
C228	1-101-006-00	CERAMIC	0.047MF		50V
C229	1-123-381-00	ELECT	2.2MF	20%	50V
C230	1-123-608-00	ELECT	0.22MF	20%	50V
C231	1-101-005-00	CERAMIC	0.022MF		50V
C232	1-102-074-00	CERAMIC	0.001MF	10%	50V
C233	1-101-006-00	CERAMIC	0.047MF		50V
C234	1-123-381-00	ELECT	2.2MF	20%	50V
C235	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C237	1-101-880-00	CERAMIC	47PF	5%	50V
C238	1-102-820-00	CERAMIC	330PF	5%	50V
C239	1-102-074-00	CERAMIC	0.001MF	10%	50V
C240	1-123-381-00	ELECT	2.2MF	20%	50V
C241	1-102-074-00	CERAMIC	0.001MF	10%	50V
C244	1-101-880-00	CERAMIC	47PF	5%	50V
C247	1-123-356-00	ELECT	10MF	20%	16V
C248	1-101-006-00	CERAMIC	0.047MF		50V
C249	1-102-820-00	CERAMIC	330PF	5%	50V
C250	1-123-607-00	ELECT	0.1MF	20%	50V
C251	1-123-609-00	ELECT	0.33MF	20%	50V
C252	1-102-963-00	CERAMIC	33PF	5%	50V
C253	1-102-973-00	CERAMIC	100PF	5%	50V
C254	1-101-880-00	CERAMIC	47PF	5%	50V
C255	1-101-880-00	CERAMIC	47PF	5%	50V
C256	1-123-356-00	ELECT	10MF	20%	16V
C257	1-161-025-00	CERAMIC	0.1MF	10%	25V

Ref.No	Part No.	Description			Remark
C258	1-101-888-00	CERAMIC	68PF	5%	50V
C259	1-102-951-00	CERAMIC	15PF	5%	50V
C260	1-102-976-00	CERAMIC	180PF	5%	50V
C261	1-102-945-00	CERAMIC	8PF	0.5PF	50V
C262	1-101-006-00	CERAMIC	0.047MF		50V
C264	1-101-006-00	CERAMIC	0.047MF		50V
C265	1-101-004-00	CERAMIC	0.01MF		50V
C266	1-101-006-00	CERAMIC	0.047MF		50V
C267	1-101-006-00	CERAMIC	0.047MF		50V
C269	1-101-004-00	CERAMIC	0.01MF		50V
C270	1-102-074-00	CERAMIC	0.001MF	10%	50V
C271	1-101-004-00	CERAMIC	0.01MF		50V
C300	1-123-356-00	ELECT	10MF	20%	16V
C302	1-123-356-00	ELECT	10MF	20%	16V
C304	1-123-381-00	ELECT	2.2MF	20%	50V
C501	1-101-361-00	CERAMIC	150PF	5%	50V
C502	1-101-004-00	CERAMIC	0.01MF		50V
C850	1-102-973-00	CERAMIC	100PF	5%	50V
C851	1-130-473-00	MYLAR	0.0015MF	5%	50V
C852	1-101-004-00	CERAMIC	0.01MF		50V

CONNECTOR

CN002	*1-560-890-00	PIN, CONNECTOR 2P
CN003	*1-560-895-00	PIN, CONNECTOR 7P
CN004	*1-560-890-00	PIN, CONNECTOR 2P
CN006	1-561-534-00	SOCKET 21P
CN008	*1-560-893-00	PIN, CONNECTOR 5P
CN011	*1-560-896-00	PIN, CONNECTOR 8P
CN012	*1-560-893-00	PIN, CONNECTOR 5P
CN020	*1-564-187-00	PIN, CONNECTOR

COMPOSITION CIRCUIT BLOCK

CP001	1-232-919-11	COMPOSITION CIRCUIT BLOCK
CP003	1-232-914-11	COMPOSITION CIRCUIT BLOCK
CP004	1-232-917-11	COMPOSITION CIRCUIT BLOCK
CP005	1-232-918-11	COMPOSITION CIRCUIT BLOCK
CP006	1-232-928-11	COMPOSITION CIRCUIT BLOCK
CP007	1-232-935-11	COMPOSITION CIRCUIT BLOCK
CP011	1-232-922-11	COMPOSITION CIRCUIT BLOCK
CP012	1-232-920-11	COMPOSITION CIRCUIT BLOCK
CP013	1-232-938-11	COMPOSITION CIRCUIT BLOCK
CP014	1-232-915-11	COMPOSITION CIRCUIT BLOCK
CP015	1-232-912-11	COMPOSITION CIRCUIT BLOCK
CP016	1-232-931-11	COMPOSITION CIRCUIT BLOCK
CP017	1-232-913-11	COMPOSITION CIRCUIT BLOCK
CP019	1-232-916-11	COMPOSITION CIRCUIT BLOCK
CP020	1-232-932-11	COMPOSITION CIRCUIT BLOCK
CP021	1-232-936-11	COMPOSITION CIRCUIT BLOCK
CP022	1-232-934-11	COMPOSITION CIRCUIT BLOCK
CP100	1-232-927-11	COMPOSITION CIRCUIT BLOCK

TRIMMER

CV200	1-141-227-00	CAP, CERAMIC TRIMMER

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description	Remark
		DIODE	
D001	8-719-911-19	DIODE 1SS119	
D002	8-719-151-07	DIODE RD5.1E-B	
D003	8-719-815-87	DIODE 1S1587	
D004	8-719-815-87	DIODE 1S1587	
D005	8-719-815-87	DIODE 1S1587	
D006	8-719-815-87	DIODE 1S1587	
D008	8-719-911-19	DIODE 1SS119	
D009	8-719-911-19	DIODE 1SS119	
D010	8-719-815-87	DIODE 1S1587	
D102	8-719-000-12	DIODE MC931	
D103	8-719-000-06	DIODE MC921	
D106	8-719-000-12	DIODE MC931	
D107	8-719-000-12	DIODE MC931	
D200	⚠8-719-100-38	DIODE RD6.2EB1	
D203	8-719-000-06	DIODE MC921	
D204	8-719-000-06	DIODE MC921	
D950	8-719-911-19	DIODE 1SS119	
D951	8-719-911-19	DIODE 1SS119	
		DELAY LINE	
DL100	1-415-282-31	DELAY LINE	
DL101	1-415-386-21	DELAY LINE, 1H (13.3MHZ)	
		FILTER	
FL100	1-235-440-11	FILTER, BAND PASS (3.7MHZ)	
FL101	1-235-441-11	FILTER, BAND PASS (5.17MHZ)	
FL200	1-409-408-11	C.E TRAP	
FL201	1-409-396-11	REC C TRAP	
FL202	1-235-437-11	BPF, PB C	
		IC	
IC001	8-752-013-00	IC CX20130	
IC002	8-752-013-10	IC CX20131	
IC003	8-752-013-20	IC CX20132	
IC004	8-752-203-10	CX22031	
IC005	8-759-913-64	IC CX23064	
IC006	8-759-202-68	IC CX20147	
IC007	1-235-497-11	REC PILOT LPF	
		COIL	
L001	1-408-421-00	MICRO INDUCTOR 100UH	
L002	1-408-413-00	MICRO INDUCTOR 22UH	
L004	1-408-425-00	MICRO INDUCTOR 220UH	
L005	1-408-426-00	MICRO INDUCTOR 270UH	
L006	1-408-425-00	MICRO INDUCTOR 220UH	
L007	1-408-420-00	MICRO INDUCTOR 82UH	
L010	1-408-424-00	MICRO INDUCTOR 180UH	
L013	1-408-423-00	MICRO INDUCTOR 150UH	
L014	1-408-422-00	MICRO INDUCTOR 120UH	
L017	1-408-427-00	MICRO INDUCTOR 330UH	
L018	1-408-422-00	MICRO INDUCTOR 120UH	

Ref.No	Part No.	Description	Remark
L019	1-408-423-00	MICRO INDUCTOR 150UH	
L020	1-408-416-00	MICRO INDUCTOR 39UH	
L021	1-410-072-21	MICRO INDUCTOR 820UH	
L022	1-408-421-00	MICRO INDUCTOR 100UH	
L100	1-408-397-00	MICRO INDUCTOR 1UH	
L101	1-408-397-00	MICRO INDUCTOR 1UH	
L103	1-408-418-00	MICRO INDUCTOR 56UH	
L104	1-408-420-00	MICRO INDUCTOR 82UH	
L105	1-408-418-00	MICRO INDUCTOR 56UH	
L106	1-408-421-00	MICRO INDUCTOR 100UH	
L107	1-408-419-00	MICRO INDUCTOR 68UH	
L108	1-408-413-00	MICRO INDUCTOR 22UH	
L109	1-408-408-00	MICRO INDUCTOR 8.2UH	
L110	1-408-412-00	MICRO INDUCTOR 18UH	
L111	1-408-413-00	MICRO INDUCTOR 22UH	
L112	1-408-418-00	MICRO INDUCTOR 56UH	
L114	1-408-417-00	MICRO INDUCTOR 47UH	
L115	1-408-417-00	MICRO INDUCTOR 47UH	
L116	1-408-414-00	MICRO INDUCTOR 27UH	
L200	1-408-424-00	MICRO INDUCTOR 180UH	
L201	1-408-413-00	MICRO INDUCTOR 22UH	
L203	1-408-427-00	MICRO INDUCTOR 330UH	
L206	1-408-425-00	MICRO INDUCTOR 220UH	
L207	1-408-420-00	MICRO INDUCTOR 82UH	
L208	1-408-407-00	MICRO INDUCTOR 6.8UH	
L209	1-408-427-00	MICRO INDUCTOR 330UH	
		VARIABLE COIL	
LV001	1-409-397-11	TRAP	
LV100	1-408-512-00	COIL (VARIABLE)	
		IC LINK	
PS200	⚠1-532-679-00	LINK, IC	
		TRANSISTOR	
Q003	8-729-117-54	TRANSISTOR 2SA1175	
Q004	8-729-117-54	TRANSISTOR 2SA1175	
Q007	8-729-117-54	TRANSISTOR 2SA1175	
Q008	8-729-384-48	TRANSISTOR 2SA844	
Q009	8-729-245-83	TRANSISTOR 2SC2458	
Q010	8-729-245-83	TRANSISTOR 2SC2458	
Q011	8-729-900-36	TRANSISTOR DTC124ES	
Q012	8-729-117-54	TRANSISTOR 2SA1175	
Q013	8-729-117-54	TRANSISTOR 2SA1175	
Q014	8-729-900-36	TRANSISTOR DTC124ES	
Q015	8-729-900-36	TRANSISTOR DTC124ES	
Q016	8-729-245-83	TRANSISTOR 2SC2458	
Q017	8-729-900-36	TRANSISTOR DTC124ES	
Q021	8-729-900-89	TRANSISTOR DTC144ES	
Q100	8-729-900-36	TRANSISTOR DTC124ES	
Q101	8-729-900-36	TRANSISTOR DTC124ES	
Q102	8-729-117-54	TRANSISTOR 2SA1175	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

VI-9BG

Ref.No	Part No.	Description				Remark
Q103	8-729-245-83	TRANSISTOR 2SC2458				
Q104	8-729-245-83	TRANSISTOR 2SC2458				
Q105	8-729-245-83	TRANSISTOR 2SC2458				
Q107	8-729-900-36	TRANSISTOR DTC124ES				
Q108	8-729-900-36	TRANSISTOR DTC124ES				
Q109	8-729-900-36	TRANSISTOR DTC124ES				
Q110	8-729-245-83	TRANSISTOR 2SC2458				
Q200	8-729-245-83	TRANSISTOR 2SC2458				
Q201	8-729-900-36	TRANSISTOR DTC124ES				
Q203	8-729-603-50	TRANSISTOR 2SC403SP-4				
Q204	8-729-603-50	TRANSISTOR 2SC403SP-4				
Q205	8-729-900-36	TRANSISTOR DTC124ES				
Q206	8-729-117-54	TRANSISTOR 2SA1175-F				
Q207	8-729-900-36	TRANSISTOR DTC124ES				
Q208	8-729-245-83	TRANSISTOR 2SC2458				
Q209	8-729-245-83	TRANSISTOR 2SC2458				
Q212	8-729-245-83	TRANSISTOR 2SC2458				
Q213	8-729-900-36	TRANSISTOR DTC124ES				
Q214	8-729-900-36	TRANSISTOR DTC124ES				
Q215	8-729-245-83	TRANSISTOR 2SC2458				
Q216	8-729-245-83	TRANSISTOR 2SC2458				
Q217	8-729-245-83	TRANSISTOR 2SC2458				
Q218	8-729-900-61	TRANSISTOR DTA114ES				
Q258	8-729-900-36	TRANSISTOR DTC124ES				
Q300	8-729-900-36	TRANSISTOR DTC124ES				
		RESISTOR				
R001	1-247-881-00	CARBON	120K	5%	1/6W	
R002	1-247-895-00	CARBON	470K	5%	1/6W	
R003	1-247-857-00	CARBON	12K	5%	1/6W	
R004	1-247-859-00	CARBON	15K	5%	1/6W	
R005	1-249-437-11	CARBON	47K	5%	1/6W	
R006	1-249-437-11	CARBON	47K	5%	1/6W	
R007	1-249-417-11	CARBON	1K	5%	1/6W	
R008	1-247-891-00	CARBON	330K	5%	1/6W	
R010	1-249-417-11	CARBON	1K	5%	1/6W	
R011	1-249-441-11	CARBON	100K	5%	1/6W	
R012	1-247-875-00	CARBON	68K	5%	1/6W	
R013	1-249-417-11	CARBON	1K	5%	1/6W	
R014	1-249-437-11	CARBON	47K	5%	1/6W	
R015	1-249-437-11	CARBON	47K	5%	1/6W	
R016	1-249-437-11	CARBON	47K	5%	1/6W	
R017	1-247-873-00	CARBON	56K	5%	1/6W	
R018	1-249-425-11	CARBON	4.7K	5%	1/6W	
R019	1-249-425-11	CARBON	4.7K	5%	1/6W	
R020	1-247-833-00	CARBON	1.2K	5%	1/6W	
R022	1-249-433-11	CARBON	22K	5%	1/6W	
R024	1-249-437-11	CARBON	47K	5%	1/6W	
R025	1-249-437-11	CARBON	47K	5%	1/6W	
R026	1-249-437-11	CARBON	47K	5%	1/6W	
R027	1-249-437-11	CARBON	47K	5%	1/6W	
R029	1-247-839-00	CARBON	2.2K	5%	1/6W	
R030	1-249-422-11	CARBON	2.7K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R031	1-247-839-00	CARBON	2.2K	5%	1/6W	
R032	1-247-845-00	CARBON	3.9K	5%	1/6W	
R033	1-247-883-00	CARBON	150K	5%	1/6W	
R037	1-247-853-00	CARBON	8.2K	5%	1/6W	
R040	1-247-823-00	CARBON	470	5%	1/6W	
R042	1-249-417-11	CARBON	1K	5%	1/6W	
R043	1-249-433-11	CARBON	22K	5%	1/6W	
R045	1-247-829-00	CARBON	820	5%	1/6W	
R050	1-247-839-00	CARBON	2.2K	5%	1/6W	
R051	1-247-839-00	CARBON	2.2K	5%	1/6W	
R052	1-249-422-11	CARBON	2.7K	5%	1/6W	
R054	1-247-837-00	CARBON	1.8K	5%	1/6W	
R055	1-247-804-00	CARBON	75	5%	1/6W	
R056	1-247-797-00	CARBON	39	5%	1/6W	
R057	1-247-797-00	CARBON	39	5%	1/6W	
R058	1-249-414-11	CARBON	560	5%	1/6W	
R059	1-247-845-00	CARBON	3.9K	5%	1/6W	
R060	1-247-821-00	CARBON	390	5%	1/6W	
R064	1-247-857-00	CARBON	12K	5%	1/6W	
R065	1-249-414-11	CARBON	560	5%	1/6W	
R066	1-249-415-11	CARBON	680	5%	1/6W	
R067	1-247-805-00	CARBON	82	5%	1/6W	
R069	1-247-829-00	CARBON	820	5%	1/6W	
R070	1-247-883-00	CARBON	150K	5%	1/6W	
R072	1-247-815-00	CARBON	220	5%	1/6W	
R073	1-249-425-11	CARBON	4.7K	5%	1/6W	
R074	1-249-425-11	CARBON	4.7K	5%	1/6W	
R075	1-249-423-11	CARBON	3.3K	5%	1/6W	
R077	1-247-811-00	CARBON	150	5%	1/6W	
R079	1-249-417-11	CARBON	1K	5%	1/6W	
R080	1-249-429-11	CARBON	10K	5%	1/6W	
R084	1-247-815-00	CARBON	220	5%	1/6W	
R085	1-249-433-11	CARBON	22K	5%	1/6W	
R086	1-247-853-00	CARBON	8.2K	5%	1/6W	
R087	1-249-432-11	CARBON	18K	5%	1/6W	
R101	1-247-809-00	CARBON	120	5%	1/6W	
R102	1-247-857-00	CARBON	12K	5%	1/6W	
R103	1-249-433-11	CARBON	22K	5%	1/6W	
R104	1-249-433-11	CARBON	22K	5%	1/6W	
R105	1-247-895-00	CARBON	470K	5%	1/6W	
R106	1-247-903-00	CARBON	1M	5%	1/6W	
R107	1-249-405-11	CARBON	100	5%	1/6W	
R108	1-249-429-11	CARBON	10K	5%	1/6W	
R110	1-247-869-00	CARBON	39K	5%	1/6W	
R111	1-247-859-00	CARBON	15K	5%	1/6W	
R113	1-247-833-00	CARBON	1.2K	5%	1/6W	
R114	1-249-425-11	CARBON	4.7K	5%	1/6W	
R122	1-249-417-11	CARBON	1K	5%	1/6W	
R125	1-249-419-11	CARBON	1.5K	5%	1/6W	
R131	1-249-417-11	CARBON	1K	5%	1/6W	
R132	1-247-823-00	CARBON	470	5%	1/6W	
R133	1-249-417-11	CARBON	1K	5%	1/6W	
R134	1-247-809-00	CARBON	120	5%	1/6W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description				Remark
R135	1-247-821-00	CARBON	390	5%	1/6W	
R136	1-247-809-00	CARBON	120	5%	1/6W	
R137	1-247-817-00	CARBON	270	5%	1/6W	
R138	1-249-437-11	CARBON	47K	5%	1/6W	
R139	1-249-437-11	CARBON	47K	5%	1/6W	
R140	1-249-417-11	CARBON	1K	5%	1/6W	
R141	1-247-849-00	CARBON	5.6K	5%	1/6W	
R142	1-247-859-00	CARBON	15K	5%	1/6W	
R143	1-249-405-11	CARBON	100	5%	1/6W	
R144	1-247-791-00	CARBON	22	5%	1/6W	
R145	1-247-839-00	CARBON	2.2K	5%	1/6W	
R146	1-249-417-11	CARBON	1K	5%	1/6W	
R147	1-249-417-11	CARBON	1K	5%	1/6W	
R151	1-249-419-11	CARBON	1.5K	5%	1/6W	
R155	1-249-437-11	CARBON	47K	5%	1/6W	
R156	1-247-875-00	CARBON	68K	5%	1/6W	
R159	1-249-414-11	CARBON	560	5%	1/6W	
R161	1-247-823-00	CARBON	470	5%	1/6W	
R164	1-249-415-11	CARBON	680	5%	1/6W	
R165	1-249-425-11	CARBON	4.7K	5%	1/6W	
R168	1-249-425-11	CARBON	4.7K	5%	1/6W	
R173	1-247-815-00	CARBON	220	5%	1/6W	
R175	1-249-415-11	CARBON	680	5%	1/6W	
R176	1-249-415-11	CARBON	680	5%	1/6W	
R178	1-249-417-11	CARBON	1K	5%	1/6W	
R179	1-247-895-00	CARBON	470K	5%	1/6W	
R180	1-249-434-11	CARBON	27K	5%	1/6W	
R181	1-249-417-11	CARBON	1K	5%	1/6W	
R182	1-249-429-11	CARBON	10K	5%	1/6W	
R183	1-249-432-11	CARBON	18K	5%	1/6W	
R184	1-249-441-11	CARBON	100K	5%	1/6W	
R185	1-249-422-11	CARBON	2.7K	5%	1/6W	
R186	1-247-859-00	CARBON	15K	5%	1/6W	
R187	1-249-435-11	CARBON	33K	5%	1/6W	
R190	1-249-432-11	CARBON	18K	5%	1/6W	
R200	1-249-435-11	CARBON	33K	5%	1/6W	
R201	1-247-823-00	CARBON	470	5%	1/6W	
R203	1-249-422-11	CARBON	2.7K	5%	1/6W	
R209	1-249-417-11	CARBON	1K	5%	1/6W	
R218	1-249-405-11	CARBON	100	5%	1/6W	
R219	1-247-839-00	CARBON	2.2K	5%	1/6W	
R220	1-249-417-11	CARBON	1K	5%	1/6W	
R221	1-249-417-11	CARBON	1K	5%	1/6W	
R222	1-247-859-00	CARBON	15K	5%	1/6W	
R223	1-249-415-11	CARBON	680	5%	1/6W	
R224	1-247-859-00	CARBON	15K	5%	1/6W	
R225	1-249-425-11	CARBON	4.7K	5%	1/6W	
R226	1-249-433-11	CARBON	22K	5%	1/6W	
R227	1-247-839-00	CARBON	2.2K	5%	1/6W	
R232	1-249-433-11	CARBON	22K	5%	1/6W	
R233	1-249-441-11	CARBON	100K	5%	1/6W	
R234	1-247-851-00	CARBON	6.8K	5%	1/6W	
R235	1-247-839-00	CARBON	2.2K	5%	1/6W	
R236	1-249-437-11	CARBON	47K	5%	1/6W	
R237	1-249-437-11	CARBON	47K	5%	1/6W	
R238	1-249-425-11	CARBON	4.7K	5%	1/6W	
R239	1-249-417-11	CARBON	1K	5%	1/6W	
R240	1-249-425-11	CARBON	4.7K	5%	1/6W	
R242	1-247-815-00	CARBON	220	5%	1/6W	
R248	1-247-885-00	CARBON	180K	5%	1/6W	
R251	1-249-429-11	CARBON	10K	5%	1/6W	
R253	1-249-425-11	CARBON	4.7K	5%	1/6W	
R254	1-249-437-11	CARBON	47K	5%	1/6W	
R261	1-249-417-11	CARBON	1K	5%	1/6W	
R262	1-249-422-11	CARBON	2.7K	5%	1/6W	
R264	1-249-417-11	CARBON	1K	5%	1/6W	
R265	1-247-823-00	CARBON	470	5%	1/6W	
R266	1-249-405-11	CARBON	100	5%	1/6W	
R267	1-249-415-11	CARBON	680	5%	1/6W	
R268	1-249-435-11	CARBON	33K	5%	1/6W	
R269	1-249-433-11	CARBON	22K	5%	1/6W	
R270	1-249-417-11	CARBON	1K	5%	1/6W	
R271	1-249-425-11	CARBON	4.7K	5%	1/6W	
R272	1-247-849-00	CARBON	5.6K	5%	1/6W	
R273	1-249-435-11	CARBON	33K	5%	1/6W	
R277	1-249-437-11	CARBON	47K	5%	1/6W	
R280	1-247-829-00	CARBON	820	5%	1/6W	
R282	1-249-433-11	CARBON	22K	5%	1/6W	
R284	1-249-417-11	CARBON	1K	5%	1/6W	
R285	1-249-422-11	CARBON	2.7K	5%	1/6W	
R286	1-247-815-00	CARBON	220	5%	1/6W	
R287	1-249-417-11	CARBON	1K	5%	1/6W	
R288	1-249-417-11	CARBON	1K	5%	1/6W	
R289	1-249-417-11	CARBON	1K	5%	1/6W	
R290	1-247-840-00	CARBON	2.4K	5%	1/6W	
R292	1-249-425-11	CARBON	4.7K	5%	1/6W	
R293	1-249-417-11	CARBON	1K	5%	1/6W	
R306	1-249-415-11	CARBON	680	5%	1/6W	
R307	1-249-415-11	CARBON	680	5%	1/6W	
R309	1-247-783-00	CARBON	10	5%	1/6W	
R310	1-249-417-11	CARBON	1K	5%	1/6W	
R311	1-249-417-11	CARBON	1K	5%	1/6W	
R312	1-247-873-00	CARBON	56K	5%	1/6W	
R501	1-249-417-11	CARBON	1K	5%	1/6W	
R750	1-247-839-00	CARBON	2.2K	5%	1/6W	
R751	1-247-821-00	CARBON	390	5%	1/6W	
R752	1-247-805-00	CARBON	82	5%	1/6W	
R753	1-247-839-00	CARBON	2.2K	5%	1/6W	
R754	1-249-414-11	CARBON	560	5%	1/6W	
R755	1-247-839-00	CARBON	2.2K	5%	1/6W	
R756	1-247-839-00	CARBON	470	5%	1/6W	
R757	1-249-429-11	CARBON	10K	5%	1/6W	
R758	1-247-874-00	CARBON	62K	5%	1/6W	
R759	1-247-821-00	CARBON	390	5%	1/6W	
R760	1-249-417-11	CARBON	1K	5%	1/6W	
R761	1-249-432-11	CARBON	18K	5%	1/6W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description				Remark
R762	1-249-417-11	CARBON	1K	5%	1/6W	
R765	1-249-433-11	CARBON	22K	5%	1/6W	

VARIABLE RESISTOR

Ref.No	Part No.	Description
RV001	1-228-995-00	RES, ADJ, CARBON 22K
RV002	1-228-993-00	RES, ADJ, CARBON 4.7K
RV003	1-228-995-00	RES, ADJ, CARBON 22K
RV004	1-228-994-00	RES, ADJ, CARBON 10K
RV005	1-228-995-00	RES, ADJ, CARBON 22K
RV006	1-228-995-00	RES, ADJ, CARBON 22K
RV100	1-228-995-00	RES, ADJ, CARBON 22K
RV101	1-228-996-00	RES, ADJ, CARBON 47K
RV102	1-228-998-00	RES, ADJ, CARBON 220K
RV103	1-228-997-00	RES, ADJ, CARBON 100K
RV201	1-228-990-00	RES, ADJ, CARBON 1K
RV202	1-228-995-00	RES, ADJ, CARBON 22K
RV203	1-228-989-00	RES, ADJ, CARBON 470
RV204	1-228-994-00	RES, ADJ, CARBON 10K
RV205	1-228-994-00	RES, ADJ, CARBON 10K
RV206	1-228-995-00	RES, ADJ, CARBON 22K

CRYSTAL

Ref.No	Part No.	Description
X100	1-567-442-11	VIBRATOR, CRYSTAL
X200	1-567-146-11	VIBRATOR, CRYSTAL
X201	1-567-345-11	VIBRATOR, CRYSTAL

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*1-617-208-11 SK-9 BOARD
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CAPACITOR

Ref.No	Part No.	Description			
C601	1-161-025-00	CERAMIC	0.1MF	10%	25V
C602	1-161-023-00	CERAMIC	0.068MF	10%	25V

TRANSISTOR

Ref.No	Part No.	Description
Q111	8-729-900-36	TRANSISTOR DTC124ES
Q401	8-729-900-89	TRANSISTOR DTC144ES
Q402	8-729-178-54	TRANSISTOR 2SC2785

RESISTOR

Ref.No	Part No.	Description			
R600	1-249-417-11	CARBON	1K	5%	1/6W
R601	1-249-425-11	CARBON	4.7K	5%	1/6W

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*1-619-504-11 NC-5 BOARD
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CAPACITOR

Ref.No	Part No.	Description			
C001	1-124-225-00	ELECT	100MF	20%	6.3V
C002	1-102-980-00	CERAMIC	270PF	5%	50V
C003	1-102-961-00	CERAMIC	27PF	5%	50V
C004	1-124-245-00	ELECT	4.7MF	20%	16V
C005	1-124-233-00	ELECT	10MF	20%	16V
C006	1-161-059-00	CERAMIC	0.047MF	10%	25V

COIL

Ref.No	Part No.	Description
L001	1-408-984-21	MICRO INDUCTOR 150UH

TRANSISTOR

Ref.No	Part No.	Description
Q001	8-729-245-83	TRANSISTOR 2SC2458
Q002	8-729-245-83	TRANSISTOR 2SC2458
Q003	8-729-245-83	TRANSISTOR 2SC2458

RESISTOR

Ref.No	Part No.	Description				Remark
R001	1-249-417-11	CARBON	1K	5%	1/6W	
R002	1-249-405-11	CARBON	100	5%	1/6W	
R003	1-247-839-00	CARBON	2.2K	5%	1/6W	
R004	1-247-838-00	CARBON	2K	5%	1/6W	
R005	1-247-833-00	CARBON	1.2K	5%	1/6W	
R006	1-247-833-00	CARBON	1.2K	5%	1/6W	
R007	1-247-817-00	CARBON	270	5%	1/6W	
✱	(1-249-417-00	CARBON	1K	5%	1/6W)	
R008	1-249-433-11	CARBON	22K	5%	1/6W	
R009	1-247-857-00	CARBON	12K	5%	1/6W	
R010	1-249-423-11	CARBON	3.3K	5%	1/6W	

✱ R007 is an adjusting resistor. When it is replaced by occasion of repair, use a part having the same constant as the part which has been installed.

When indicating parts by reference number, please include the board name.